



By Appointment to  
Her Majesty The Queen  
Supplier of Fire Detection Equipment  
Kentec Electronics Ltd. Dartford



**Life Safety System Specialists**  
**1<sup>st</sup> August 2015-30<sup>th</sup> June 2016**

**Global Trade  
Product List**  
Incorporating Terms &  
Conditions of Sale  
V2.04

## General

### Pricing

All prices quoted within this price guide are stated in pounds Sterling, are ex-works, subject to delivery charge and VAT where applicable. This price list will be valid until 30<sup>th</sup> June 2016 or until further notice.

### Terms

All goods supplied and services provided are subject to our standard terms & conditions of sale, detailed on pages 78 & 79 of this price guide. These are incorporated in any contract for the supply/provision of such goods and services. Kentec Electronics Ltd will only contract for the supply/provision of such goods and services on the basis of such standard conditions of sale.

Prices may be subject to a trade discount. Please contact our sales department on +44 (0)1322 222121, your Business Development Manager or e-mail [sales@kentec.co.uk](mailto:sales@kentec.co.uk)

Kentec reserves the right to amend the prices or Terms & Conditions of Sale at any time without prior notification. Any amendments, additions or deletions will be published on our website [www.kentec.co.uk](http://www.kentec.co.uk).

### Ordering Correct Parts

Please take care when ordering, it is important that you provide the correct part number to avoid being supplied incorrect product and incurring additional costs.

## Important Phone Numbers

<b>General Sales</b>	+44 (0)1322 222121
<b>UK Northern Area Business Development Manager</b>	+44 (0)7738 928373
<b>UK South West England Business Development Manager</b>	+44 (0)7825 344133
<b>UK London &amp; South East England Business Development Manager</b>	+44 (0)7554 400803
<b>European Business Development Manager</b>	+44 (0)7557 283048
<b>International Business Development Manager</b>	+44 (0)7793 656012

### Important Email Addresses

<b>Sales</b>	<a href="mailto:sales@kentec.co.uk">sales@kentec.co.uk</a>
<b>Technical Support</b>	<a href="mailto:techsupport@kentec.co.uk">techsupport@kentec.co.uk</a>
<b>Marketing</b>	<a href="mailto:marketingmail@kentec.co.uk">marketingmail@kentec.co.uk</a>

## Product Warranty

All new standard products purchased from Kentec are covered by our 36 month Product Warranty. For full details about our warranty please refer to our Terms & Conditions of Sale which is on pages 74 & 75 of this Price List.

## Product Branding

Providing company or other brand logos onto most control panels supplied by Kentec is a free of charge service provided to all Kentec customers. We are now able to offer full colour printing.

A non recurring cost of £30-00 will be charged to produce the necessary artwork for new or modified logo designs.

To produce a new logo we require artwork electronically in one of the following formats:

- A. Adobe Illustrator .ai or .eps vector file with text converted to outlines (Preferred)
- B. High resolution Tiff or JPEG file.

In either case if there are any spot colours please specify Pantone colour references.

For further assistance please contact our Marketing Department on +44 (0)1322 222121.

## Technical Support

Free technical support is available to direct Kentec customers on all Kentec manufactured products, by calling +44 (0)1322 222121 or by e-mail at [techsupport@kentec.co.uk](mailto:techsupport@kentec.co.uk). Tech Support operate between 8.30am - 5.30pm Monday to Friday, 8am-12noon Saturday, Closed Sunday.

When requesting technical assistance, it is **essential** that concise and detailed information is given to the technical support engineer, to allow them to provide an accurate response to the enquiry. For fault finding assistance, the technical support staff may require additional testing to be performed to accurately diagnose possible causes of the fault.

### NOTES

Whilst every effort is taken to ensure that the technical support information given is accurate, Kentec assume no liability for any loss or damage as result of technical advise given, or time taken performing additional fault diagnosis testing.

## Product Repair

For many years Kentec has offered a repair service for out of warranty items. To improve this process and allow customers to make informed decisions regarding repairs, the price list includes repair price codes for circuit boards and panel components.

We also provide a repair and refurbish service for complete control panels. Please contact our sales department on +44 (0)1322 222121 or e-mail [sales@kentec.co.uk](mailto:sales@kentec.co.uk) for refurbishment panel prices.

### Repair Procedure

1. Obtain a price for the item(s) to be repaired.  
Call our sales department on +44 (0)1322 222121  
E-mail: [sales@kentec.co.uk](mailto:sales@kentec.co.uk)
2. Raise an order for the item(s) to be repaired, including delivery charges.
3. Return the goods to be repaired to the Customer Service Department at the normal Kentec address.  
Clearly mark the packaging "Repair Items".

### Repair Policy

1. The repair prices apply only to out of warranty items. Warranty items are covered by our separate Service Replacement Items (SRI) policy.
2. We are unable to accept products that are older than 6 years for repair.
3. We are unable to refurbish special build control panels.
4. Standard control panels will be repaired / refurbished to "as new" condition.
5. All repaired or refurbished products are covered by a 3 month warranty from date of delivery.

## Service Replacement Items - SRI (Warranty)

Kentec offers its customers an unrivalled service when requiring replacement parts. Our SRI policy includes all products covered by our 3 year Product Warranty.

For the complete SRI Terms & Conditions please refer to our Web Site. For detailed warranty information, please refer to Clause 8 of our Terms & Conditions of Sale. (See pages 74 & 75).

### NOTES

**It is important that our SRI procedures are followed when requiring replacement parts for any Kentec product. Please do not place Purchase Orders for replacement parts as this may incur restocking charges under our RMA policy will apply.**

## Product Returns Policy (RMA)

We recognise that from time to time customers order products that for various reasons they are no longer required. To help our customers we have developed a policy and procedure which is designed to meet our customers' needs. The following procedure should be followed for all returns of new and unused product. Unfortunately we **cannot** accept back product that has been used or installed.

### RMA Procedure (Return Material Authority)

1. Request an RMA in writing either by email or fax. State your original purchase order number and an explanation of why you want to return the goods.  
Contact Details:
  - Fax: +44 (0) 1322 291794
  - E-mail: sales@kentec.co.uk
  - For Further details call our sales department on +44 (0)1322 222121
2. We will process the RMA and where appropriate return the form to you authorised and with details of any handling fee.
  - If we cannot accept the goods for return for any reason we will contact you directly to discuss this.
3. Return the goods to Kentec with the completed, authorised RMA form.

### RMA Policy

1. Unfortunately we cannot accept any returned products without a completed and authorised RMA (Return Material Authority) document (see above).
2. **We are now unable to accept returned goods 60 days after the original date of supply.**
3. **Restocking Charge**
  - a. Standard Products (only products included in this Price List)
    - i. 15% of original net price
    - ii. 20% of original net price for all flush mounted and semi flush products
  - b. Special Products
    - i. Custom made or modified products that cannot be restocked are subject to a 75% return charge as these products cannot be re-sold.



## CPR (Construction Products Regulation)

European Regulations: Construction Products Regulation (CPR) a legal requirement, which came into force in the UK on the 1st July 2013 requires that all manufacturers and resellers to comply with the Construction Products Regulation (CPR).

As part of the regulation it is illegal to place on the market, any product to be used in a construction of a building without the necessary third party certification and compliance with the CPR. This applies only to products where EN Harmonised Product Standards exist for the products concerned.

To help our customers identify which products are not suitable for placing on the EU market we have marked each of these products within this price list with ●.

It should be noted that although it is now illegal to place products into the EU market without a Declaration of Performance in accordance with the CPR, it is possible for us to sell these products for use outside of the EU. UL Listed & FM Approved products are not approved for placement within the EU Market.

Third Party Certificates for Kentec Electronics Products can be download here: [http://www.kentec.co.uk/download\\_certificates.htm](http://www.kentec.co.uk/download_certificates.htm)

Custom built site specific panels can still be supplied for projects in Europe.

Should you have any questions or queries please contact our sales department or your local BDM.

## Control Panel Finishes & Colour Schemes

Sigma CP/XT/XT+, Syncro & Syncro AS style enclosures are finished in light grey colour scheme:

Inner Equipment Plate	RAL 7047 (Satin)
Lid & Box	BS4800 00-A-05 (fine texture)

The above colour scheme is finished in Polyester Powder Coat and is suitable for internal applications only (Except where indicated). Finishes suitable for external use can be provided at extra cost.

Alternative colour schemes are also available on request and at additional cost.

We are able to offer Brushed or Polished Stainless Steel or Polished Brass finish to control panel doors, please add the following cost to the relevant control panel price.\*\*

Description	Box Code (Last 2 digits of product code)
330mm x 255mm Surface Enclosure Size	(M1)
385mm x 310mm Surface Enclosure Size	(M2)
385mm x 310mm Flush Enclosure Size	(L2)
415mm x 315mm Flush Enclosure Size	(F2)
365mm x 290mm Surface Enclosure Size	(01)
370mm x 290mm Flush Enclosure Size	(02)
385mm x 520mm Surface Enclosure Size	(M3)
385mm x 520mm Surface Enclosure Size	(D3)
500mm x 355mm Surface Enclosure Size	(03)
506mm x 360mm Flush Enclosure Size	(04,14)
570mm x 420mm Surface Enclosure Size	(05)
576mm x 426mm Flush Enclosure Size	(06)
385mm x 700mm Surface Enclosure Size	(M4)
500mm x 650mm Surface Enclosure Size	(S4)
500mm x 465mm Surface Enclosure Size	(15)

\*\* Please note the additional cost is for a special finish door only. Back boxes would normally be supplied in Black Texture Powder Coat Finish. For other enclosure sizes please contact our sales department.


# How to use this Guide

Range of equipment

Product Information & Overview

11. Sigma CP

Conventional Fire Control Panels - Certified to EN54 parts 2 & 4



**Product Data sheet:** DS37 (see website)

**Product Manual:** Man-1078 - Main Manual (see website)  
Man-1082 - User Manual (see website)

**Enclosure:** 1.2mm mild sheet steel

**Battery Capacity:** Up to 7Ah

**Finish/Colour:** Lid & Box - EPC (BS 00 A 05, mid grey fine texture)  
Controls Plate - EPC (Ral 7047, light grey)

**Certification:** BS EN54-2: BS EN54-4

**Panels**

Product Description	No. Wires	No. Zones	Enclosure Details (mm)	Code
Sigma CP Conventional Fire Control Panels	Four Wire	2 Zones	Surface 385W x 310H x 90D	K11020 M2
			Flush 415W x 315H x 86D	K11020 F2
		4 Zones	Surface 385W x 310H x 90D	K11040 M2
			Flush 415W x 315H x 86D	K11040 F2
		8 Zones	Surface 385W x 310H x 90D	K11080 M2
			Flush 415W x 315H x 86D	K11080 F2
	Two Wire*	2 Zones	Surface 385W x 310H x 90D	T11020 M2
			Flush 415W x 315H x 86D	T11020 F2
		4 Zones	Surface 385W x 310H x 90D	T11040 M2
			Flush 415W x 315H x 86D	T11040 F2
		8 Zones	Surface 385W x 310H x 90D	T11080 M2
			Flush 415W x 315H x 86D	T11080 F2

Example photograph

Product Description

Additional Information

Enclosure dimensions

Product Code

Enclosure style & finish Indicator

Unit Price in Sterling

Any relevant extra items

**Extras**

Product Description	Enclosure Details (mm)	Code
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Any relevant spare parts

**Spares**

Product Description	Code		
Sigma CP - Replacement Panel PCB	Four Wire	2 Zones	K444C
	Four Wire	4 Zones	K445C
	Four Wire	8 Zones	K446C
	Two Wire	2 Zones	K447C
	Two Wire	4 Zones	K448C
	Two Wire	8 Zones	K449C

Product specific information & tips

**Additional Info**

Hints & Tips

Not for placement into EU Market (typical)

Flush Versions are highlighted\*

Please check availability before ordering for EU Market. Certification pending at time of going to print

Indicates PCB repair cost



## **Analogue Fire Detection Control Panels**

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## **Conventional Fire Detection Control Panels**

**Pages 40-46**



## **Extinguishant Control Panels**

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## **Power Supplies**

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## **UL Approved Control Panels**

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# Analogue Fire Detection Control Equipment

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Power, Intelligence.....

with a sense of feeling

## It's new and it's coming

Welcome to "Taktis" the next generation of Life Safety Control Systems. During 2015 we will start to introduce a whole range of products based on the all new "Taktis Technology Platform". The first products to be introduced will be Taktis Fire EN 54 analogue addressable control panels which we expect to be released to market in the second half of 2015. In the following months we will be adding many more products to the Taktis range.

## The Range

Due to the versatility that has been built into the design, the Taktis Fire product is one of the most user configurable products to be placed into the market. As a result, the options open to our customers have increased exponentially and as such it is impossible to list all variations available. We have therefore listed only a few of the standard variants of Taktis Fire in this price list.

## Extended options

To cope with the much wider of products offered and provide our customers with the choices they need, we are publishing an online product configurator. The configurator will allow customers to access the full extended range of configurable Taktis options available. The configurator will provide guidance, part number generation and cost for over 25,000 variations of the Taktis that we have planned. We will be contacting you directly with details about the new online configurator which will be located on our new Taktis product website [www.taktisvr.com](http://www.taktisvr.com).

## Protocols

Taktis will be our first analogue addressable product that offers "configurable protocol options". Subject to market and commercial constraints each customer will be able to "unlock" the required protocol for their Taktis panel. This eliminates the need for stocking different protocol loop cards and reduces risk of ordering incorrect parts. Please check with our Sales team for protocol availability.

## Configuring Taktis

To configure your Taktis control system you will require our all new Loop Explorer 2 (LE2). We will provide access to all existing registered users of the current Loop Explorer program. LE2 will be accessible via our new web interface [www.taktisvr.com](http://www.taktisvr.com) and will provide access to the new feature set and new tools required for Taktis. LE2 will support the current Syncro and Syncro AS products. For more information about LE2 please contact our technical support team.



<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 24Ah (2-8 loop, 150mm Deep models)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7016, dark grey)
<b>Certification:</b>	BS EN54-2: BS EN54-4

## Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	
<b>Taktis - 2 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	<b>Part Numbering System</b> currently under review. <b>Please contact your local</b> <b>Business Development</b> <b>Manager for more</b> <b>information.</b>
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	48 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	96 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	144 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	

### NOTE

The above list of Taktis Control Panels only represent a very small selection of the total range. To view the complete range we have established a Taktis product configurator which can be found on our VR site. Visit [www.taktisvr.com](http://www.taktisvr.com) for information on Taktis products including a full range of part numbers and latest news about Taktis products and developments.

## 1B. Taktis | Analogue Addressable Fire Control Panel - 4 Loop Version



<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 24Ah (2-8 loop, 150mm Deep models)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7016, dark grey)
<b>Certification:</b>	BS EN54-2: BS EN54-4

### Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	
<b>Taktis - 4 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	<b>Part Numbering System</b> currently under review. <b>Please contact your local</b> <b>Business Development</b> <b>Manager for more</b> <b>information.</b>
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	48 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	96 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	144 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	

### NOTE

The above list of Taktis Control Panels only represent a very small selection of the total range. To view the complete range we have established a Taktis product configurator which can be found on our VR site. Visit [www.taktisvr.com](http://www.taktisvr.com) for information on Taktis products including a full range of part numbers and latest news about Taktis products and developments.





<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 24Ah (2-8 loop, 150mm Deep models)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7016, dark grey)
<b>Certification:</b>	BS EN54-2: BS EN54-4

## Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	
<b>Taktis - 6 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	<b>Part Numbering System</b> currently under review. <b>Please contact your local</b> <b>Business Development</b> <b>Manager for more</b> <b>information.</b>
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	48 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	96 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	144 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	

**NOTE**

The above list of Taktis Control Panels only represent a very small selection of the total range. To view the complete range we have established a Taktis product configurator which can be found on our VR site. Visit [www.taktisvr.com](http://www.taktisvr.com) for information on Taktis products including a full range of part numbers and latest news about Taktis products and developments.

## 1D. Taktis | Analogue Addressable Fire Control Panel - 8 Loop Version



<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 24Ah (2-8 loop, 150mm Deep models)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7016, dark grey)
<b>Certification:</b>	BS EN54-2: BS EN54-4

### Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	
<b>Taktis - 8 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	<b>Part Numbering System</b> <b>currently under review.</b> <b>Please contact your local</b> <b>Business Development</b> <b>Manager for more</b> <b>information.</b>
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	48 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	96 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
	144 Zone LED's	No	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	
		Yes	No	Surface 420W x 590H x 150D Flush	
			Yes	Surface 420W x 590H x 150D Flush	

### NOTE

The above list of Taktis Control Panels only represent a very small selection of the total range. To view the complete range we have established a Taktis product configurator which can be found on our VR site. Visit [www.taktisvr.com](http://www.taktisvr.com) for information on Taktis products including a full range of part numbers and latest news about Taktis products and developments.

## Extras

## Product Description

16 Channel I/O Module	<b>Part Numbering System currently under review. Please contact your local Business Development Manager for more information.</b>
8 Way Relay Module	
8 Way Conventional Zone Module	
4 Way Sounder Module	
Taktis Network Module	
Taktis Network & IFAM Interface Module	
Taktis Network & Ethernet Module	

## Spares

## Product Description

Power Supply Unit	5.25Amp PSU	<b>Part Numbering System currently under review. Please contact your local Business Development Manager for more information.</b>
	10.25Amp PSU	
Download Lead - USB (only for use with Taktis product)		
LCD Main Processor Board		
Main Back Board		
Dual Loop Module		
System Board Module	A Module	
	B Module	
Zone LED Board		
Taktis Printer		

## Additional Options

We will be adding more products and options for our Taktis range. These will include our all new Taktis Vision Configurable Repeater range, an extended range of Plug-In I/O Modules plus the exciting new Media Gateway Interface Modules.

We will also be adding flush mounted options and alternative enclosure options to the range.

**NOTE**

Please note that not all of the above options, spares or extras will be available immediately on release of the initial Taktis range. Please check availability with our Sales team.

## More Taktis Products Coming Soon

◀ Taktis 2 to 16 Loop Version

▼ Taktis Vision

Taktis ▶  
Network Card

◀ VR Taktis  
Media Gateway

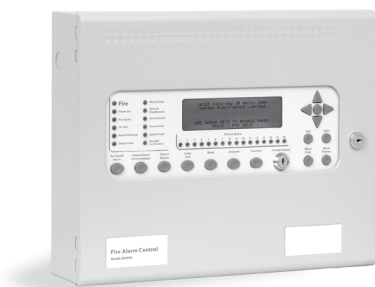
Taktis Virtual Resource ▲

Taktis I/O ▶

# 1A. Syncro AS

## Analogue Addressable Fire Control Panel - 1 Loop 16 Zone Version

Analogue



<b>Product Data sheet:</b>	DS47 (see website)
<b>Product Manual:</b>	Man-1096 - Main Manual (see website) Man-1100 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Max battery size for enclosure:</b>	Up to 9Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Protocol:</b>	See Below
<b>Certification:</b>	BS EN54-2: BS EN54-4

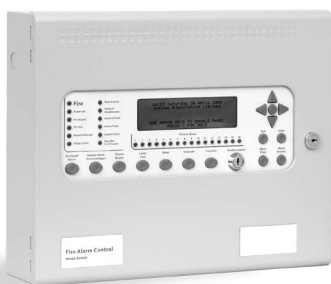
### Panels

Product Description	Protocol	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro AS Lite - 1 Loop</b> Analogue Addressable Fire Control Panel (Non Networkable) (No I/O Expansion Support)	Apollo	N/A	No	Surface 385W x 310H x 90D	<b>LA81161 M2</b>	
			Yes	Surface 385W x 310H x 90D	<b>LA80161 M2</b>	
	Argus Vega	N/A	No	Surface 385W x 310H x 90D	<b>LV81161 M2</b>	
			Yes	Surface 385W x 310H x 90D	<b>LV80161 M2</b>	
	Hochiki ESP	N/A	No	Surface 385W x 310H x 90D	<b>LH81161 M2</b>	
			Yes	Surface 385W x 310H x 90D	<b>LH80161 M2</b>	
<b>Syncro AS - 1 Loop</b> Analogue Addressable Fire Control Panel	Apollo	N/A	No	Surface 385W x 310H x 90D	<b>A81161 M2</b>	
				Flush 415W x 315H x 86D	<b>A81161 F2*</b>	
			Yes	Surface 385W x 310H x 90D	<b>A80161 M2</b>	
				Flush 415W x 315H x 86D	<b>A80161 F2*</b>	
	Argus Vega	N/A	No	Surface 385W x 310H x 90D	<b>V81161 M2</b>	
				Flush 415W x 315H x 86D	<b>V81161 F2*</b>	
			Yes	Surface 385W x 310H x 90D	<b>V80161 M2</b>	
				Flush 415W x 315H x 86D	<b>V80161 F2*</b>	
	Hochiki ESP	N/A	No	Surface 385W x 310H x 90D	<b>H81161 M2</b>	
				Flush 415W x 315H x 86D	<b>H81161 F2*</b>	
			Yes	Surface 385W x 310H x 90D	<b>H80161 M2</b>	
				Flush 415W x 315H x 86D	<b>H80161 F2*</b>	
<b>Syncro AS - 1 Loop</b> <b>Larger Enclosure (M3)</b> Analogue Addressable Fire Control Panel  <b>CURRENTLY NOT SUITABLE FOR EU MARKETS</b>	Apollo	No	No	Surface 385W x 520H x 110D	<b>A81161 M3</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>A80161 M3</b>	<input type="checkbox"/>
		Yes	No	Surface 385W x 520H x 110D	<b>A81161 M3P</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>A80161 M3P</b>	<input type="checkbox"/>
	Argus Vega	No	No	Surface 385W x 520H x 110D	<b>V81161 M3</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>V80161 M3</b>	<input type="checkbox"/>
		Yes	No	Surface 385W x 520H x 110D	<b>V81161 M3P</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>V80161 M3P</b>	<input type="checkbox"/>
	Hochiki ESP	No	No	Surface 385W x 520H x 110D	<b>H81161 M3</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>H80161 M3</b>	<input type="checkbox"/>
		Yes	No	Surface 385W x 520H x 110D	<b>H81161 M3P</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>H80161 M3P</b>	<input type="checkbox"/>

See Note  
on Page 7

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

# 1B. Syncro AS | Analogue Addressable Fire Control Panel - 2 Loop 16 Zone Version



<b>Product Data sheet:</b>	D547 (see website)
<b>Product Manual:</b>	Man-1096 - Main Manual (see website) Man-1100 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Max battery size for enclosure:</b>	Up to 9Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Protocol:</b>	See Below
<b>Certification:</b>	BS EN54-2: BS EN54-4

## Panels

Product Description	Protocol	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro AS - 2 Loop</b> Analogue Addressable Fire Control Panel	Apollo	N/A	No	Surface 385W x 310H x 90D	<b>A81162 M2</b>	
				Flush 415W x 315H x 86D	<b>A81162 F2*</b>	
		Yes	Yes	Surface 385W x 310H x 90D	<b>A80162 M2</b>	
				Flush 415W x 315H x 86D	<b>A80162 F2*</b>	
	Argus Vega	N/A	No	Surface 385W x 310H x 90D	<b>V81162 M2</b>	
				Flush 415W x 315H x 86D	<b>V81162 F2*</b>	
		Yes	Yes	Surface 385W x 310H x 90D	<b>V80162 M2</b>	
				Flush 415W x 315H x 86D	<b>V80162 F2*</b>	
	Hochiki ESP	N/A	No	Surface 385W x 310H x 90D	<b>H81162 M2</b>	
				Flush 415W x 315H x 86D	<b>H81162 F2*</b>	
		Yes	Yes	Surface 385W x 310H x 90D	<b>H80162 M2</b>	
				Flush 415W x 315H x 86D	<b>H80162 F2*</b>	
<b>Syncro AS - 2 Loop</b> <b>Larger Enclosure (M3)</b> Analogue Addressable Fire Control Panel  <b>CURRENTLY NOT SUITABLE FOR EU MARKETS</b>	Apollo	No	No	Surface 385W x 520H x 110D	<b>A81162 M3</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>A80162 M3</b>	<input type="checkbox"/>
		Yes	No	Surface 385W x 520H x 110D	<b>A81162 M3P</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>A80162 M3P</b>	<input type="checkbox"/>
	Argus Vega	No	No	Surface 385W x 520H x 110D	<b>V81162 M3</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>V80162 M3</b>	<input type="checkbox"/>
		Yes	No	Surface 385W x 520H x 110D	<b>V81162 M3P</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>V80162 M3P</b>	<input type="checkbox"/>
	Hochiki ESP	No	No	Surface 385W x 520H x 110D	<b>H81162 M3</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>H80162 M3</b>	<input type="checkbox"/>
		Yes	No	Surface 385W x 520H x 110D	<b>H81162 M3P</b>	<input type="checkbox"/>
			Yes	Surface 385W x 520H x 110D	<b>H80162 M3P</b>	<input type="checkbox"/>

See Note  
on Page 7

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

## Extras

Product Description			Code	
Syncro AS Loop 2 Extension Card	Apollo Protocol		K586A	
	Argus Vega Protocol		K586V	
	Hochiki ESP Protocol		K586H	
Syncro Fault Tolerant Network Interface Card			K555	
Syncro I/O - 16 Channel I/O board			K560	
Syncro I/O - 8 Way Relay Extender Board			K547	
Syncro I/O - 6 Way Sounder Extender Board			K546	
Syncro I/O - 4 Way Conventional Detection Zone Module			K545	
Modem Module (PSTN) (allows remote access to Panel, M3 size enclosure only)			K556P	
Dongle (needs to be fitted to the computer that is accessing modem, USB)			B2158USB	
Software Download Lead (Compatible with all Syncro Panels)	Economy		X187LS*	
	Standard		S187**	
USB to RS232 Serial Converter for software download lead			U187	
Tamper Resistant Vision Window (easy to retrofit on site)	385W x 310H (M2) Cabinet		K18002***	
	385W x 520H (M3) Cabinet		K18003***	
Semi Flushing Collar	385W x 310H (M2) Cabinet		M2FCLGT	
	385W x 520H (M3) Cabinet		M3FCLGT	
Thermal Printer Retrofit Kit - New front loading printer (fits M3 box only)			K768AS	
Printer Module in Enclosure (385W x 125H x 90D Cabinet)			K768P2	

## Spares

Product Description			Code	
Syncro AS Lite Controller PCB	Apollo		K785LA	
	Argus Vega		K785LV	
	Hochiki ESP		K785LH	
Syncro AS Controller PCB	Apollo		K785A	
	Argus Vega		K785V	
	Hochiki ESP		K785H	

## Additional Info

Syncro AS Analogue Addressable control panels are fully compatible with existing Syncro systems:-

- Network
- Syncro I/O boards
- Syncro GUIDE Graphics Software Package
- Syncro Response
- Syncro Focus & Focus+
- Syncro View
- Syncro Matrix
- Syncro Ident

Syncro AS has all the functionality of Syncro & can be configured using Loop Explorer Configuration Software.

Only Syncro AS panels in "M3" larger enclosures can have built in printers.

Syncro AS Lite is a stand-alone panel and as such will not connect to any other network devices or Syncro View panels.

\* X187LS Download Lead - for use with all EN & BS Version Syncro, Syncro AS, Solo and Solex Control Panels Only

\*\* S187 Download Lead - for use with all EN & BS Version Syncro, Syncro AS Control Panels Only. **Do not use with Solo panels as this will cause damage to the panel.**

\*\*\* Surface mounted enclosures only



### 3A. Syncro | Analogue Addressable Fire Control Panel - 2 Loop Version - Apollo Protocol



<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	Apollo
<b>Certification:</b>	BS EN54-2: BS EN54-4

For information about 6 & 8 loop versions see page 30.



#### Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 2 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63002 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63002 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENSA63002 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63002 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENA63002 03P</b>	
				Flush 506W x 360H x 130D	<b>ENA63002 14P*</b>	
	16 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63162 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63162 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENSA63162 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63162 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENA63162 03P</b>	
				Flush 506W x 360H x 130D	<b>ENSA63162 14P*</b>	
	48 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63482 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63482 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENSA63482 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63482 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENA63482 03P</b>	
				Flush 506W x 360H x 130D	<b>ENSA63482 14P*</b>	
	96 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63962 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63962 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENSA63962 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63962 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENA63962 03P</b>	
				Flush 506W x 360H x 130D	<b>ENSA63962 14P*</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

See page 31 for Extras, Spares and Additional Information.





<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	Apollo
<b>Certification:</b>	BS EN54-2: BS EN54-4

For information about 6 & 8 loop versions see page 30.



## Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 4 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63004 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63004 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSA63004 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63004 14*</b>	
			No	Surface 500W x 355H x 117D	<b>ENA63004 03P</b>	
				Flush 506W x 360H x 130D	<b>ENA63004 14P*</b>	
	16 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63164 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63164 14*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSA63164 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63164 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENA63164 03P</b>	
				Flush 506W x 360H x 130D	<b>ENA63164 14P*</b>	
	48 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63484 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63484 14*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSA63484 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63484 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENA63484 03P</b>	
				Flush 506W x 360H x 130D	<b>ENA63484 14P*</b>	
	96 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENA63964 03</b>	
				Flush 506W x 360H x 130D	<b>ENA63964 14*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSA63964 03</b>	
				Flush 506W x 360H x 130D	<b>ENSA63964 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENA63964 03P</b>	
				Flush 506W x 360H x 130D	<b>ENA63964 14P*</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

See page 31 for Extras, Spares and Additional Information.

### 3C. Syncro | Analogue Addressable Fire Control Panel - 2 Loop Version - Argus Vega Protocol



<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	Argus Vega
<b>Certification:</b>	BS EN54-2: BS EN54-4

For information about 6 & 8 loop versions see page 30.



## Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 2 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63002 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63002 14*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63002 03</b>	
				Flush 506W x 360H x 130D	<b>ENSV63002 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63002 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63002 14P*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63002 03P</b>	
				Flush 506W x 360H x 130D	<b>ENSV63002 14P*</b>	
	16 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63162 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63162 14*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63162 03</b>	
				Flush 506W x 360H x 130D	<b>ENSV63162 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63162 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63162 14P*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63162 03P</b>	
				Flush 506W x 360H x 130D	<b>ENSV63162 14P*</b>	
	48 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63482 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63482 14*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63482 03</b>	
				Flush 506W x 360H x 130D	<b>ENSV63482 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63482 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63482 14P*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63482 03P</b>	
				Flush 506W x 360H x 130D	<b>ENSV63482 14P*</b>	
	96 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63962 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63962 14*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63962 03</b>	
				Flush 506W x 360H x 130D	<b>ENSV63962 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63962 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63962 14P*</b>	
			Yes	Surface 500W x 355H x 117D	<b>ENSV63962 03P</b>	
				Flush 506W x 360H x 130D	<b>ENSV63962 14P*</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

See page 31 for Extras, Spares and Additional Information.



<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	Argus Vega
<b>Certification:</b>	BS EN54-2: BS EN54-4

For information about 6 & 8 loop versions see page 30.



## Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 4 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63004 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63004 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63004 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63004 14P*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENV63004 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63004 14P*</b>	
	16 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63164 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63164 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63164 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63164 14P*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENV63164 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63164 14P*</b>	
	48 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63484 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63484 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63484 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63484 14P*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENV63484 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63484 14P*</b>	
	96 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENV63964 03</b>	
				Flush 506W x 360H x 130D	<b>ENV63964 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENV63964 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63964 14P*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENV63964 03P</b>	
				Flush 506W x 360H x 130D	<b>ENV63964 14P*</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

See page 31 for Extras, Spares and Additional Information.

## 3E. Syncro | Analogue Addressable Fire Control Panel - 2 Loop Version - Hochiki ESP Protocol



<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	Hochiki ESP
<b>Certification:</b>	BS EN54-2: BS EN54-4

For information about 6 & 8 loop versions see page 30.



### Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 2 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63002 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63002 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63002 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63002 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63002 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63002 14P*</b>	
	16 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63162 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63162 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63162 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63162 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63162 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63162 14P*</b>	
	48 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63482 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63482 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63482 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63482 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63482 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63482 14P*</b>	
	96 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63962 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63962 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63962 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63962 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63962 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63962 14P*</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.  
See page 31 for Extras, Spares and Additional Information.



<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	Hochiki ESP
<b>Certification:</b>	BS EN54-2: BS EN54-4

For information about 6 & 8 loop versions see page 30.



## Panels

Product Description	No. Zones	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 4 Loop</b> Analogue Addressable Control Panel	0 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63004 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63004 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63004 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63004 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63004 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63004 14P*</b>	
	16 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63164 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63164 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63164 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63164 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63164 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63164 14P*</b>	
	48 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63484 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63484 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63484 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63484 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63484 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63484 14P*</b>	
	96 Zone LED's	No	No	Surface 500W x 355H x 117D	<b>ENH63964 03</b>	
				Flush 506W x 360H x 130D	<b>ENH63964 14*</b>	
		Yes	Yes	Surface 500W x 355H x 117D	<b>ENSH63964 03</b>	
				Flush 506W x 360H x 130D	<b>ENSH63964 14*</b>	
		Yes	No	Surface 500W x 355H x 117D	<b>ENH63964 03P</b>	
				Flush 506W x 360H x 130D	<b>ENH63964 14P*</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

See page 31 for Extras, Spares and Additional Information.

### 3G. Syncro | Analogue Addressable Fire Control Panel - 2 Loops - Larger Enclosure



<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 24Ah S.L.A.
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	See Below
<b>Certification:</b>	BS EN54-2: BS EN54-4

#### Panels

Product Description	Zones	Protocol	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 2 Loop Larger Enclosure Analogue Addressable Fire Control Panel</b>	0 Zone LED's	Apollo	No	No	Surface 500W x 460H x 190D	<b>ENA63002 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63002 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENA63002 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63002 15P</b>	
		Argus Vega	No	No	Surface 500W x 460H x 190D	<b>ENV63002 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63002 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENV63002 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63002 15P</b>	
		Hochiki ESP	No	No	Surface 500W x 460H x 190D	<b>ENH63002 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63002 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENH63002 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63002 15P</b>	
	16 Zone LED's	Apollo	No	No	Surface 500W x 460H x 190D	<b>ENA63162 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63162 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENA63162 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63162 15P</b>	
		Argus Vega	No	No	Surface 500W x 460H x 190D	<b>ENV63162 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63162 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENV63162 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63162 15P</b>	
		Hochiki ESP	No	No	Surface 500W x 460H x 190D	<b>ENH63162 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63162 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENH63162 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63162 15P</b>	

See page 31 for Extras, Spares and Additional Information.

## Panels

Product Description	Zones	Protocol	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 2 Loop Larger Enclosure</b> Analogue Addressable Fire Control Panel	48 Zone LED's	Apollo	No	No	Surface 500W x 460H x 190D	<b>ENA63482 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63482 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENA63482 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63482 15P</b>	
		Argus Vega	No	No	Surface 500W x 460H x 190D	<b>ENV63482 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63482 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENV63482 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63482 15P</b>	
		Hochiki ESP	No	No	Surface 500W x 460H x 190D	<b>ENH63482 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63482 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENH63482 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63482 15P</b>	
	96 Zone LED's	Apollo	No	No	Surface 500W x 460H x 190D	<b>ENA63962 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63962 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENA63962 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSA63962 15P</b>	
		Argus Vega	No	No	Surface 500W x 460H x 190D	<b>ENV63962 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63962 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENV63962 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSV63962 15P</b>	
		Hochiki ESP	No	No	Surface 500W x 460H x 190D	<b>ENH63962 15</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63962 15</b>	
			Yes	No	Surface 500W x 460H x 190D	<b>ENH63962 15P</b>	
				Yes	Surface 500W x 460H x 190D	<b>ENSH63962 15P</b>	

## Extras

Product Description	Code
Semi Flushing Collar (for 500W x 460H Cabinet)	<b>M272LGT</b>

## Additional Info

## Hints &amp; Tips

Syncro can support up to 500 LEDs, special panels can be made to order.

See page 31 for Extras, Spares and Additional Information.



### 3H. Syncro | Analogue Addressable Fire Control Panel - 4 Loops - Larger Enclosure



<b>Product Data sheet:</b>	DS16 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 24Ah S.L.A.
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	See Below
<b>Certification:</b>	BS EN54-2: BS EN54-4

#### Panels

Product Description	Zones	Protocol	Printer	Enable Key	Enclosure	Details (mm)	Code	
<b>Syncro - 4 Loop Larger Enclosure Analogue Addressable Fire Control Panel</b>	0 Zone LED's	Apollo	No	No	Surface	500W x 460H x 190D	<b>ENA63004 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63004 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENA63004 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63004 15P</b>	
		Argus Vega	No	No	Surface	500W x 460H x 190D	<b>ENV63004 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63004 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENV63004 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63004 15P</b>	
		Hochiki ESP	No	No	Surface	500W x 460H x 190D	<b>ENH63004 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63004 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENH63004 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63004 15P</b>	
	16 Zone LED's	Apollo	No	No	Surface	500W x 460H x 190D	<b>ENA63164 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63164 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENA63164 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63164 15P</b>	
		Argus Vega	No	No	Surface	500W x 460H x 190D	<b>ENV63164 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63164 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENV63164 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63164 15P</b>	
		Hochiki ESP	No	No	Surface	500W x 460H x 190D	<b>ENH63164 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63164 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENH63164 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63164 15P</b>	

See page 31 for Extras, Spares and Additional Information.



## Panels

Product Description	Zones	Protocol	Printer	Enable Key	Enclosure Details (mm)		Code	
<b>Syncro - 4 Loop Larger Enclosure</b> Analogue Addressable Fire Control Panel	48 Zone LED's	Apollo	No	No	Surface	500W x 460H x 190D	<b>ENA63484 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63484 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENA63484 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63484 15P</b>	
		Argus Vega	No	No	Surface	500W x 460H x 190D	<b>ENV63484 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63484 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENV63484 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63484 15P</b>	
		Hochiki ESP	No	No	Surface	500W x 460H x 190D	<b>ENH63484 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63484 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENH63484 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63484 15P</b>	
	96 Zone LED's	Apollo	No	No	Surface	500W x 460H x 190D	<b>ENA63964 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63964 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENA63964 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSA63964 15P</b>	
		Argus Vega	No	No	Surface	500W x 460H x 190D	<b>ENV63964 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63964 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENV63964 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSV63964 15P</b>	
		Hochiki ESP	No	No	Surface	500W x 460H x 190D	<b>ENH63964 15</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63964 15</b>	
			Yes	No	Surface	500W x 460H x 190D	<b>ENH63964 15P</b>	
				Yes	Surface	500W x 460H x 190D	<b>ENSH63964 15P</b>	

## Extras

Product Description	Code		
Semi Flushing Collar (for 500W x 460H Cabinet)		<b>M272LGT</b>	

## Additional Info

## Hints &amp; Tips

Syncro can support up to 500 LEDs, special panels can be made to order.

See page 31 for Extras, Spares and Additional Information.


### 3J. Syncro | Analogue Addressable Fire Control Panel - 6 & 8 Loop Versions



<b>Product Data sheet:</b>	D557 (see website)
<b>Product Manual:</b>	Man-1055 - Main Manual (see website) Man-1057 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (B5 00 A 05, mid grey fine texture)
<b>Protocol:</b>	See Below

NOT  
SUITABLE  
FOR EU  
MARKETS

#### Panels

Product Description	Zones	Protocol	Printer	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro - 6 Loop*</b> Analogue Addressable Fire Control Panel  	96 Zone LED's	Apollo	No	No	Surface 500W x 650H x 137D	<b>ENA63966 S4</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSA63966 S4</b>	<input type="checkbox"/>
			Yes	No	Surface 500W x 650H x 137D	<b>ENA63966 S4P</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSA63966 S4P</b>	<input type="checkbox"/>
		Argus Vega	No	No	Surface 500W x 650H x 137D	<b>ENV63966 S4</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSV63966 S4</b>	<input type="checkbox"/>
			Yes	No	Surface 500W x 650H x 137D	<b>ENV63966 S4P</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSV63966 S4P</b>	<input type="checkbox"/>
		Hochiki ESP	No	No	Surface 500W x 650H x 137D	<b>ENH63966 S4</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSH63966 S4</b>	<input type="checkbox"/>
			Yes	No	Surface 500W x 650H x 137D	<b>ENH63966 S4P</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSH63966 S4P</b>	<input type="checkbox"/>
	96 Zone LED's	Apollo	No	No	Surface 500W x 650H x 137D	<b>ENA63968 S4</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSA63968 S4</b>	<input type="checkbox"/>
			Yes	No	Surface 500W x 650H x 137D	<b>ENA63968 S4P</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSA63968 S4P</b>	<input type="checkbox"/>
		Argus Vega	No	No	Surface 500W x 650H x 137D	<b>ENV63968 S4</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSV63968 S4</b>	<input type="checkbox"/>
			Yes	No	Surface 500W x 650H x 137D	<b>ENV63968 S4P</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSV63968 S4P</b>	<input type="checkbox"/>
<b>Syncro - 8 Loop*</b> Analogue Addressable Fire Control Panel  	96 Zone LED's	Hochiki ESP	No	No	Surface 500W x 650H x 137D	<b>ENH63968 S4</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSH63968 S4</b>	<input type="checkbox"/>
			Yes	No	Surface 500W x 650H x 137D	<b>ENH63968 S4P</b>	<input type="checkbox"/>
				Yes	Surface 500W x 650H x 137D	<b>ENSH63968 S4P</b>	<input type="checkbox"/>

\* All 6 and 8 loop Syncro Panels are supplied complete with Network card fitted and a 10.25Amp Charger.  
See page 31 for Extras, Spares and Additional Information.  
A flushing collar is available, please see 'Extras' page 31.

See Note  
on Page 7

## Extras

Product Description			Code	
Loop Extension Card (Loops 3 & 4)	Apollo Protocol		K552A	
	Argus Vega Protocol		K552V	
	Hochiki ESP Protocol		K552H	
Syncro Fault Tolerant Network Interface Card			K555	
Software Download Lead (Compatible with all Panels)	Economy		X187LS*	
	Standard		S187**	
USB to RS232 Serial Converter for software download lead			U187	
Thermal Printer Retrofit Kit - New front loading printer			K768SYN	
Modem Module (PSTN) (allows remote access to Panel)			K556P	
Dongle (needs to be fitted to the computer that is accessing modem, USB)			B2158USB	
Syncro I/O - 16 Channel I/O board			K560	
Syncro I/O - 8 Way Relay Extender Board			K547	
Syncro I/O - 6 Way Sounder Extender Board			K546	
Syncro I/O - 4 Way Conventional Detection Zone Module			K545	
MIOU - Multi Input/Output Unit (Din mount module, Hochiki ESP only)			K559	
LIOU - Multi Input/Output Unit - Lite Version (Hochiki ESP only)			K507	
Zone LED's extender kit	16 Zone Kit		K553-16	
	48 Zone Kit		K554-48	
	96 Zone Kit		K554-96	
Semi Flushing Collar	500W x 355H		M266LGT	
	500W x 460H		M272LGT	
	500W x 650H (fits S4 box)		M925LGT	

## Spares

Product Description			Code		
Main Display Processor Card	Syncro Lite	Apollo or Hochiki protocol		K548LITE	
		Argus Vega protocol		S548V	
	Syncro	Apollo protocol		S550ENA	
		Hochiki protocol		S550ENH	
		Argus Vega protocol		S550ENV	
Main Display Processor Card - Pre EN panels		Apollo or Hochiki protocol		S550***	
Syncro Lite Loop Controller Board		Apollo Protocol		S549A	
		Argus Vega Protocol		S549V	
		Hochiki ESP Protocol		S549H	
Syncro Loop Controller Board		Apollo Protocol		S551A	
		Argus Vega Protocol		S551V	
		Hochiki ESP Protocol		S551H	
Thermal Printer Paper Roll (Back Loading, 57mm Wide Roll)				B2869	
New Thermal Front Loading Printer Paper Roll (58mm Wide Roll)				B3472	
5.25 Amp Switched Mode Power Supply - EN54-4				S406	

## Additional Info

## Hints &amp; Tips

## Important!

Each Syncro control panel that will be used on a network will require an S555 Network Card, please add to your order. Syncro Response repeater panels come pre-fitted with Network Cards so it is **NOT** necessary to order for every Repeater on a Network. Focus and Focus+ units also have Network Interface cards fitted.

Syncro View is **NOT** a Network device & connects directly to any Syncro Panel.

Syncro I/O modules are available with an enclosure, with or without power supply. (See page 37)

All Syncro panels have a built in RS485 Bus which supports Syncro I/O & Syncro View.

Due to the operational enhancements of the EN54 approved panels, these products are **NOT** compatible with existing "Non-EN54" panel networks.

\* X187LS Download Lead - for use with all EN & BS Version Syncro, Syncro AS, Solo and Solex Control Panels Only

\*\* S187 Download Lead - for use with all EN & BS Version Syncro, Syncro AS Control Panels Only. **Do not use with Solo panels as this will cause damage to the panel.**

\*\*\* The S550 display card is supplied with firmware version V4.61 as standard. For networked systems compatibility, versions from V4.00 up to V4.60 can be pre-programmed on request.

## 4. Syncro Response

### Full Function Repeater Panel



<b>Product Data sheet:</b>	DS17 (see website)
<b>Product Manual:</b>	Man-1055 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (B5 00 A 05, mid grey fine texture)
<b>Protocol:</b>	Syncro Response panels are not Protocol specific. They come pre-installed with Network Interface Card

### Panels

Product Description	No. Zones	Printer	Enclosure Details (mm)	Code	
<b>Syncro Response</b> Full Function Repeater	0 Zone LEDs	No	Surface 500W x 355H x 117D	<b>ENK61000 03</b>	
			Flush 506W x 360H x 130D	<b>ENK61000 14*</b>	
		Yes	Surface 500W x 355H x 117D	<b>ENK61000 03P</b>	
			Flush 506W x 360H x 130D	<b>ENK61000 14P*</b>	
	16 Zone LEDs	No	Surface 500W x 355H x 117D	<b>ENK61160 03</b>	
			Flush 506W x 360H x 130D	<b>ENK61160 14*</b>	
		Yes	Surface 500W x 355H x 117D	<b>ENK61160 03P</b>	
			Flush 506W x 360H x 130D	<b>ENK61160 14P*</b>	
	48 Zone LEDs	No	Surface 500W x 355H x 117D	<b>ENK61480 03</b>	
			Flush 506W x 360H x 130D	<b>ENK61480 14*</b>	
		Yes	Surface 500W x 355H x 117D	<b>ENK61480 03P</b>	
			Flush 506W x 360H x 130D	<b>ENK61480 14P*</b>	
	96 Zone LEDs	No	Surface 500W x 355H x 117D	<b>ENK61960 03</b>	
			Flush 506W x 360H x 130D	<b>ENK61960 14*</b>	
		Yes	Surface 500W x 355H x 117D	<b>ENK61960 03P</b>	
			Flush 506W x 360H x 130D	<b>ENK61960 14P*</b>	

### Extras

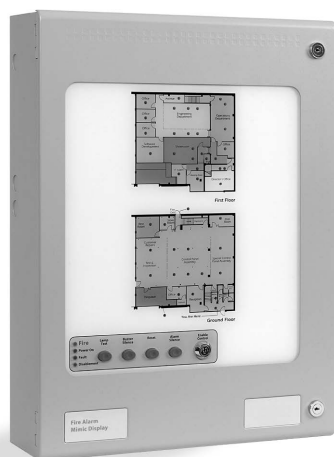
Product Description	Code	
Thermal Printer Retrofit Kit - New front loading printer	<b>K768SYN</b>	
Syncro I/O - 16 Channel I/O board	<b>K560</b>	
Syncro I/O - 8 Way Relay Extender Board	<b>K547</b>	
Syncro I/O - 6 Way Sounder Extender Board	<b>K546</b>	
Syncro I/O - 4 Way Conventional Detection Zone Module	<b>K545</b>	
Semi Flushing Collar (for 500W x 355H Cabinet)	<b>M266LGT</b>	

### Spares

Product Description	Code	
Main Display Processor Card	<b>K550</b>	
Syncro Response Main Board	<b>K561</b>	
Syncro Fault Tolerant Network Interface Card	<b>K555</b>	
Thermal Printer Paper Roll (57mm Wide Roll)	<b>B2869</b>	
New Thermal Front Loading Printer Paper Roll (58mm Wide Roll)	<b>B3472</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

## 5. Syncro Matrix | Intelligent Fire Alarm Mimic Display Panel



<b>Product Data sheet:</b>	D552 (see website)
<b>Product Manual:</b>	Man-1121 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah (required on mains powered versions only)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Acrylic Drawing:</b>	3mm thick polycarbonate with printed building outline and backed in a solid colour Full colour print
<b>LED's:</b>	Red, Green or Yellow
<b>Compatibility:</b>	For use with Syncro Analogue Addressable Control Systems only

### Panels

Product Description	PSU	Controls	Enclosure Details (mm)	
<b>Syncro Matrix</b> - M2 size, up to 24 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 385W x 310H x 90D	<b>For a product code and price contact our sales department on +44 (0)1322 222121</b>
		Yes	Surface 385W x 310H x 90D	
	2.5 Amp	No	Surface 385W x 310H x 90D	
		Yes	Surface 385W x 310H x 90D	
<b>Syncro Matrix</b> - 'S3' size, up to 56 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 500W x 355H x 117D	
		Yes	Surface 500W x 355H x 117D	
	2.5 Amp	No	Surface 500W x 355H x 117D	
		Yes	Surface 500W x 355H x 117D	
<b>Syncro Matrix</b> - 'M3' size, up to 56 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 385W x 520H x 110D	
		Yes	Surface 385W x 520H x 110D	
	2.5 Amp	No	Surface 385W x 520H x 110D	
		Yes	Surface 385W x 520H x 110D	
<b>Syncro Matrix</b> - 'S4' size, up to 88 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 500W x 650H x 137D	
		Yes	Surface 500W x 650H x 137D	
	2.5 Amp	No	Surface 500W x 650H x 137D	
		Yes	Surface 500W x 650H x 137D	

### Extras

Product Description		Code
16 LED extension PCB	Red	<b>K707</b>
	Yellow	<b>K715</b>
	Green	<b>K716</b>
Fibre optic cable with light pipe - extension kit	Kit of 5	<b>KFOC5</b>
	Kit of 10	<b>KFOC10</b>
Fibre optic cutting tool		<b>B5712</b>

### Additional Info

#### Hints & Tips

Syncro Matrix can also be supplied in a bespoke size with up to 504 LED's. Please contact our sales staff for a quotation.  
 Syncro Matrix can be connected to any Syncro and Syncro AS control panel. Syncro AS Lite is not compatible with Syncro Matrix Mimic Panels.  
 Semi flushing collars are available, please see page 64.

## 6. Syncro Ident | Programmable LED Indication Panels



<b>Product Data sheet:</b>	DS60 (see website)
<b>Product Manual:</b>	Man-1126 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Protocol:</b>	Panels are not Protocol specific
<b>Compatibility:</b>	For use with Syncro Analogue Addressable Control Systems only

### Panels

Product Description	Number of LED's	Enclosure Details (mm)	Code	
<b>Syncro Ident</b> - Local LED Repeater	8 LED's	Surface 385W x 310H x 60D	<b>K6508 L2</b>	
	24 LED's	Surface 385W x 310H x 60D	<b>K6524 L2</b>	

### Extras

Product Description	Code	
Semi Flushing Collar (for 385W x 310H (L2/M2) Cabinet)	<b>M2FCLGT</b>	

### Spares

Product Description	Code	
Common Equipment PCB	<b>K744</b>	
Extension PCB	<b>K745</b>	

### Additional Info

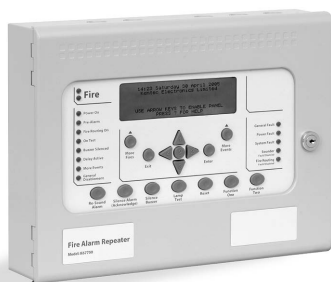
#### Hints & Tips

Note: Larger versions are available to special order.

"Syncro Ident" is **NOT** a Network device & connects directly to any Syncro, Syncro Response or Syncro AS panel. (Not Syncro AS Lite)

Up to 16 x 24 way Syncro Ident can be connected to each fire panel.

## 7. Syncro View | Local LCD Repeater Panels



<b>Product Data sheet:</b>	D543 (see website)
<b>Product Manual:</b>	Man-1092 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 1.9Ah (required on mains powered versions only)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Protocol:</b>	Panels are not Protocol specific

### Panels

Product Description	PSU	Enable Key	Enclosure Details (mm)	Code	
<b>Syncro View</b> - Local LCD Repeater	Not fitted	No	Surface 330W x 255H x 90D	<b>K67000 M1</b>	
			Semi Flush 330W x 255H x 90D	<b>K67000 F1*</b>	
		Yes	Surface 330W x 255H x 90D	<b>K67001 M1</b>	
			Semi Flush 330W x 255H x 90D	<b>K67001 F1*</b>	
	750mA	No	Surface 330W x 255H x 90D	<b>K67750 M1</b>	
			Semi Flush 330W x 255H x 90D	<b>K67750 F1*</b>	
		Yes	Surface 330W x 255H x 90D	<b>K67751 M1</b>	
			Semi Flush 330W x 255H x 90D	<b>K67751 F1*</b>	

### Extras

Product Description	Code	
Semi Flushing Collar (for 330W x 255H (M1) Cabinet)	<b>M1FCLGT</b>	

### Spares

Product Description	Code	
Syncro View Repeater Board	<b>K579</b>	
750mA Charger unit	<b>S307B</b>	

### Additional Info

#### Hints & Tips

#### NOTE

"Syncro View" is **NOT** a Network device & connects directly to any Syncro, Syncro Response or Syncro AS panels.  
(Not Syncro AS Lite)

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

Up to 15 Syncro View repeaters may be connected to each Syncro or Syncro Response panel, taking up to 15 of the 32 addresses available for the additional Syncro expansion cards.

## 8. Syncro Focus & Focus+ | Network LCD Repeater Panels



<b>Product Data sheet:</b>	D524 (see website)
<b>Product Manual:</b>	Man-1081 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 2.4Ah (required on mains powered versions only)
<b>Finish/Colour:</b>	Lid & Box - EPC (B5 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Protocol:</b>	Panels are not Protocol specific

### Panels

Product Description	PSU	Enclosure Details (mm)	Code	
<b>Syncro Focus -</b> 3 Button Version	Not fitted	Surface 330W x 255H x 90D	<b>K68000 M1</b>	
		Semi Flush 330W x 255H x 90D	<b>K68000 F1*</b>	
	750mA	Surface 330W x 255H x 90D	<b>K69000 M1</b>	
		Semi Flush 330W x 255H x 90D	<b>K69000 F1*</b>	
<b>Syncro Focus+ -</b> 6 Button Version (Full Control)	Not fitted	Surface 330W x 255H x 90D	<b>K681000 M1</b>	
		Semi Flush 330W x 255H x 90D	<b>K681000 F1*</b>	
	750mA	Surface 330W x 255H x 90D	<b>K691000 M1</b>	
		Semi Flush 330W x 255H x 90D	<b>K691000 F1*</b>	

### Extras

Product Description	Code
Semi Flushing Collar (for 330W x 255H (M1) Cabinet)	<b>M1FCLGT</b>

### Spares

Product Description	Code
Syncro Focus/Focus+ Repeater Main Board	<b>K567A</b>
750mA Charger unit	<b>S307B</b>

### Additional Info

#### Hints & Tips

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

Syncro Focus and Focus+ Repeater Panels **DO NOT** require a Network Card.

All Focus Repeaters must be connected to a Syncro Network.

They are **NOT** Protocol Specific.

Any panel supporting Syncro Focus must have an S555 Network Card fitted.



## 9. I/O Boards and Enclosures



<b>Product Data sheet:</b>	D546a - I/O Box Data sheet (see website) D546b - 2-6 Way Addressable Sounder Data sheet (see website) D521 - MIOU/ LIOU Data sheet (see website)
<b>Product Manual:</b>	Man-1060 - MIOU (see website) Man-1113 - LIOU (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 9Ah* (required on mains powered versions only) Up to 4Ah**
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)

### Panels

Product Description	Enclosure Details (mm)		Code	
<b>I/O box with chassis fitted:-</b> fits 3 I/O cards without PSU or, fits 2 I/O cards with PSU fitted (I/O modules not included, order separately)	No PSU fitted	Surface 385W x 310H x 90D	<b>K16001 M2*</b>	
	2.5A PSU fitted	Surface 385W x 310H x 90D	<b>K16250 M2**</b>	
	5.25A PSU fitted	Surface 385W x 310H x 90D	<b>K16400 M2**</b>	
<b>2 Way Addressable Sounder Controller Unit (2.5A PSU)</b>	Apollo Protocol	Surface 500W x 355H x 108D	<b>A17252 03*</b>	
	Argus Vega Protocol	Surface 500W x 355H x 108D	<b>V17252 03*</b>	
	Hochiki Protocol	Surface 500W x 355H x 108D	<b>H17252 03*</b>	
<b>4 Way Addressable Sounder Controller Unit (5.25A PSU)</b>	Apollo Protocol	Surface 500W x 355H x 108D	<b>A17254 03*</b>	
	Argus Vega Protocol	Surface 500W x 355H x 108D	<b>V17254 03*</b>	
	Hochiki Protocol	Surface 500W x 355H x 108D	<b>H17254 03*</b>	
<b>6 Way Addressable Sounder Controller Unit (5.25A PSU)</b>	Apollo Protocol	Surface 500W x 355H x 108D	<b>A17256 03*</b>	
	Argus Vega Protocol	Surface 500W x 355H x 108D	<b>V17256 03*</b>	
	Hochiki Protocol	Surface 500W x 355H x 108D	<b>H17256 03*</b>	

### Extras

Product Description	Code	
Syncro I/O - 16 Channel I/O board	<b>K560</b>	
Syncro I/O - 8 Way Relay Extender Board	<b>K547</b>	
Syncro I/O - 6 Way Sounder Extender Board	<b>K546</b>	
Syncro I/O - 4 Way Conventional Detection Zone Module	<b>K545</b>	
Semi Flushing Collar	385W x 310H (M2) Cabinet	<b>M2FCLGT</b>
	500W x 355H Cabinet	<b>M266LGT</b>
Multi Input/Output Units (Hochiki protocol only)	MIOU	<b>K559</b>
	LIOU (Lite version)	<b>K507</b>



See Note  
on Page 7

### Additional Info

#### Hints & Tips

All Syncro panels, including Syncro Lite, Syncro AS & Syncro Response support Syncro I/O modules  
Up to 32 modules (any combination) can be fitted to each Syncro panel

## 10. Syncro GUIDE V3 | PC Graphics Package



**Product Data sheet:** DS18 (see website)  
**Product Manual:** Man-1079 (see website)  
**Operating System:** Windows® XP, Windows® Vista, Windows® 2000 or Windows® 7 Professional

### Packages

Product Description		Enclosure Details (mm)		Code
<b>Syncro GUIDE V3</b> PC Graphics Package	Single Panel Package	N/A		<b>G1001</b>
	4 Panel Package	N/A		<b>G1004</b>
	8 Panel Package	N/A		<b>G1008</b>
	16 Panel Package	N/A		<b>G1016</b>
	32 Panel Package	N/A		<b>G1032</b>
	64 Panel Package	N/A		<b>G1064</b>
<b>Syncro GUIDE V3 - Upgrade</b> PC Graphics Package - Upgrade	1 to 4 Panel Package	N/A		<b>GU10104</b>
	1 to 8 Panel Package	N/A		<b>GU10108</b>
	1 to 16 Panel Package	N/A		<b>GU10116</b>
	1 to 32 Panel Package	N/A		<b>GU10132</b>
	1 to 64 Panel Package	N/A		<b>GU10164</b>
	4 to 8 Panel Package	N/A		<b>GU10408</b>
	4 to 16 Panel Package	N/A		<b>GU10416</b>
	4 to 32 Panel Package	N/A		<b>GU10432</b>
	4 to 64 Panel Package	N/A		<b>GU10464</b>
	8 to 16 Panel Package	N/A		<b>GU10816</b>
	8 to 32 Panel Package	N/A		<b>GU10832</b>
	8 to 64 Panel Package	N/A		<b>GU10864</b>
	16 to 32 Panel Package	N/A		<b>GU11632</b>
	16 to 64 Panel Package	N/A		<b>GU11664</b>
	32 to 64 Panel Package	N/A		<b>GU13264</b>

### Additional Info

#### Hints & Tips

All Syncro GUIDE Packages include Interface to PC & Syncro Panel Interface.

PC & Syncro Panel are **NOT** included in price.

Panel Packages Offered are based on the total number of Kentec Control Panels fitted to a system or network, which includes all FACP's & Repeater Panels Installed.

# Conventional Fire Detection Control Equipment

Sigma CP 2 & 4 Wire Conventional Fire Control Panel	40	44	Sigma Matrix Conventional Fire Alarm Mimic Display System
Sigma CP-A Alarmsense Compatible Conventional Fire Control Panel	42	45	Series 3000 Conventional Fire Control Panels
Sigma CP-R Fire Control Panel Repeaters	43	46	Series 3200 Conventional Fire Control Repeater Panels

## 11. Sigma CP

## Conventional Fire Control Panels - Certified to EN54 parts 2 & 4



<b>Product Data sheet:</b>	DS37 (see website)
<b>Product Manual:</b>	Man-1078 - Main Manual (see website) Man-1082 - User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Certification:</b>	BS EN54-2: BS EN54-4

### Panels

Product Description	No. Zones	Enclosure Details (mm)	Code	
<b>Sigma CP - Four Wire</b> Conventional Fire Control Panels	<b>2 Zones</b>	Surface 385W x 310H x 90D	<b>K11020 M2</b>	
		Flush 415W x 315H x 86D	<b>K11020 F2*</b>	
	<b>4 Zones</b>	Surface 385W x 310H x 90D	<b>K11040 M2</b>	
		Flush 415W x 315H x 86D	<b>K11040 F2*</b>	
	<b>8 Zones</b>	Surface 385W x 310H x 90D	<b>K11080 M2</b>	
		Flush 415W x 315H x 86D	<b>K11080 F2*</b>	
<b>Sigma CP - Four Wire with LCMU Included</b> Conventional Fire Control Panels	<b>2 Zones</b>	Surface 385W x 310H x 90D	<b>KL11020 M2</b>	
	<b>4 Zones</b>	Surface 385W x 310H x 90D	<b>KL11040 M2</b>	
	<b>8 Zones</b>	Surface 385W x 310H x 90D	<b>KL11080 M2</b>	
<b>Sigma CP - Two Wire*</b> Conventional Fire Control Panels	<b>2 Zones</b>	Surface 385W x 310H x 90D	<b>T11020 M2</b>	
		Flush 415W x 315H x 86D	<b>T11020 F2*</b>	
	<b>4 Zones</b>	Surface 385W x 310H x 90D	<b>T11040 M2</b>	
		Flush 415W x 315H x 86D	<b>T11040 F2*</b>	
	<b>8 Zones</b>	Surface 385W x 310H x 90D	<b>T11080 M2</b>	
		Flush 415W x 315H x 86D	<b>T11080 F2*</b>	

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

## Extras

Product Description	Enclosure Details (mm)	Code	
Semi Flushing Collar (385W x 310H (M2) Cabinet)	N/A	<b>M2FCLGT</b>	
LCMU Line Continuity Monitoring Unit	N/A	<b>K14060</b>	
Sigma CP Ancillary PCB	N/A	<b>K580</b>	
Boxed Sigma CP Ancillary PCB	Surface 385W x 310H x 90D	<b>K02000 M2</b>	
Boxed Sigma CP Ancillary PCB with 0.75 Amp PSU	Surface 385W x 310H x 90D	<b>K02750 M2</b>	
Sigma CP Sounder PCB	N/A	<b>K461</b>	
Boxed Sigma CP Sounder PCB	Surface 385W x 310H x 90D	<b>K04000 M2</b>	
Boxed Sigma CP Sounder PCB with 5.25 Amp PSU	Surface 385W x 310H x 90D	<b>K04400 M2</b>	
Tamper Resistant Vision Window (easy to retrofit on site)	385W x 310H (fits M2 box)	<b>K18002**</b>	

See Note  
on Page 7

## Spares

Product Description		Code	
<b>Sigma CP - Four Wire</b> - Replacement Panel PCB	<b>2 Zones</b>	<b>K444C</b>	
	<b>4 Zones</b>	<b>K445C</b>	
	<b>8 Zones</b>	<b>K446C</b>	
<b>Sigma CP - Two Wire</b> - Replacement Panel PCB	<b>2 Zones</b>	<b>K447C</b>	
	<b>4 Zones</b>	<b>K448C</b>	
	<b>8 Zones</b>	<b>K449C</b>	

## Additional Info

## Hints &amp; Tips

\*\*"Two Wire" panels require special detector bases, such as Apollo 45681-206 or Hochiki YB0-R/5PA and special call points. Refer to Manual Man-1078 for details.

\*\* Surface mounted enclosures only.

All panels are supplied with end of line resistors fitted.

To comply with the requirements of BS5839 Part 1, one LCMU per zone is required when used with diode bases. (4 Wire models only).

Ancillary PCB's connect to the control panel via a two wire Serial connection.

## 12. Sigma CP-A AlarmSense Compatible Conventional Fire Control Panels



<b>Product Data sheet:</b>	DS65 (see website)
<b>Product Manual:</b>	Man-1138
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Protocol:</b>	Apollo
<b>Certification:</b>	BS EN54-2: BS EN54-4

**AlarmSense**<sup>®</sup>

### Panels

Product Description	No. Wires	No. Zones	Enclosure Details (mm)	Code
<b>Sigma CP-A</b> AlarmSense Compatible Conventional Fire Control Panels	Two Wire	<b>2 Zones</b>	Surface 385W x 310H x 90D	<b>KA11020 M2</b>
			Flush 415W x 315H x 86D	<b>KA11020 F2*</b>
		<b>4 Zones</b>	Surface 385W x 310H x 90D	<b>KA11040 M2</b>
			Flush 415W x 315H x 86D	<b>KA11040 F2*</b>
		<b>8 Zones</b>	Surface 385W x 310H x 90D	<b>KA11080 M2</b>
			Flush 415W x 315H x 86D	<b>KA11080 F2*</b>

### Extras

Product Description	Enclosure Details (mm)	Code
Semi Flushing Collar (385W x 310H (M2) Cabinet)	N/A	<b>M2FCLGT</b>
Sigma CP Ancillary PCB	N/A	<b>K580</b>
Boxed Sigma CP Ancillary PCB	Surface 385W x 310H x 90D	<b>K02000 M2</b>
Boxed Sigma CP Ancillary PCB with 0.75 Amp PSU	Surface 385W x 310H x 90D	<b>K02750 M2</b>
Sigma CP Sounder PCB	N/A	<b>K461</b>
Boxed Sigma CP Sounder PCB	Surface 385W x 310H x 90D	<b>K04000 M2</b>
Boxed Sigma CP Sounder PCB with 5.25 Amp PSU	Surface 385W x 310H x 90D	<b>K04400 M2</b>
Tamper Resistant Vision Window (easy to retrofit on site)	385W x 310H (fits M2 box)	<b>K18002</b>

See Note  
on Page 7

### Spares

Product Description	Code
<b>Sigma CP-A - Replacement Panel PCB</b>	<b>Two Wire</b>
	<b>2 Zones</b>
	<b>4 Zones</b>
	<b>8 Zones</b>

### Additional Info

#### Hints & Tips

#### NOTE

The Sigma CP-A range of Conventional Control Panels are only compatible with Apollo AlarmSense devices.

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.  
All panels are supplied with end of line resistors fitted.  
Ancillary PCB's connect to the control panel via a two wire Serial connection.

## 13. Sigma CP-R | Fire Control Panel Repeaters



<b>Product Data sheet:</b>	D539 (see website)
<b>Product Manual:</b>	Man-1093 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah (required on mains powered versions only)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)

### Panels

Product Description	PSU	No. Zones	Enclosure Details (mm)	Code	
Sigma CP-R Conventional Repeater Panel	24V version	2 Zones	Surface 385W x 310H x 60D	<b>E01020 L2</b>	
			Flush 415W x 315H x 86D	<b>E01020 F2*</b>	
		4 Zones	Surface 385W x 310H x 60D	<b>E01040 L2</b>	
			Flush 415W x 315H x 86D	<b>E01040 F2*</b>	
		8 Zones	Surface 385W x 310H x 60D	<b>E01080 L2</b>	
			Flush 415W x 315H x 86D	<b>E01080 F2*</b>	
	230V version	2 Zones	Surface 385W x 310H x 90D	<b>K01020 M2</b>	
			Flush 415W x 315H x 86D	<b>K01020 F2*</b>	
		4 Zones	Surface 385W x 310H x 90D	<b>K01040 M2</b>	
			Flush 415W x 315H x 86D	<b>K01040 F2*</b>	
		8 Zones	Surface 385W x 310H x 90D	<b>K01080 M2</b>	
			Flush 415W x 315H x 86D	<b>K01080 F2*</b>	

### Extras

Product Description	Enclosure Details (mm)	Code	
Semi Flushing Collar (385W x 310H (L2/M2) Cabinet)	N/A	<b>M2FCLGT</b>	
Tamper Resistant Vision Window (easy to retrofit on site)	385W x 310H (fits M2 box)	<b>K18002**</b>	

### Spares

Product Description	PSU	No. Zones	Code	
Sigma CP-R Replacement Panel PCB	24V version	2 Zones	<b>K581B</b>	
		4 Zones	<b>K582B</b>	
		8 Zones	<b>K583B</b>	
	230V version	2 Zones	<b>K573B</b>	
		4 Zones	<b>K574B</b>	
		8 Zones	<b>K575B</b>	

### Additional Info

#### Hints & Tips

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

\*\* Surface mounted enclosures only

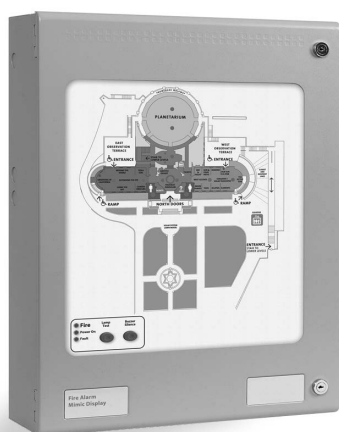
Sigma CP-R are full function repeater panels. Sigma CP-R is compatible with all Sigma CP and Sigma CP-A panels.

Repeater panels connect to control panels via a two-wire Serial connection.

Panels with an "E" prefix require an additional two wires for 24V Power.

Panels with a "K" prefix require a 230V AC mains connection and have battery charging capability.

## 14. Sigma Matrix Conventional Fire Alarm Mimic Display System



<b>Product Data sheet:</b>	DS59 (see website)
<b>Product Manual:</b>	Man-1127 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (B5 00 A 05, mid grey fine texture)
<b>Acrylic Drawing:</b>	3mm thick polycarbonate with printed building outline and backed in a solid colour
	Full colour print
<b>LED's:</b>	Red, Green or Yellow

### Panels

Product Description	PSU	Controls	Enclosure Details (mm)	
<b>Sigma Matrix</b> - M2 size, up to 32 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 385W x 310H x 90D	<b>For a product code and price contact our sales department on +44 (0)1322 222121</b>
		Yes	Surface 385W x 310H x 90D	
	2.5 Amp	No	Surface 385W x 310H x 90D	
		Yes	Surface 385W x 310H x 90D	
<b>Sigma Matrix</b> - 'S3' size, up to 64 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 500W x 355H x 117D	
		Yes	Surface 500W x 355H x 117D	
	2.5 Amp	No	Surface 500W x 355H x 117D	
		Yes	Surface 500W x 355H x 117D	
<b>Sigma Matrix</b> - 'M3' size, up to 64 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 385W x 520H x 110D	
		Yes	Surface 385W x 520H x 110D	
	2.5 Amp	No	Surface 385W x 520H x 110D	
		Yes	Surface 385W x 520H x 110D	
<b>Sigma Matrix</b> - 'S4' size, up to 96 LED's (Enclosure to match our Syncro AS range of panels)	Not fitted	No	Surface 500W x 650H x 137D	
		Yes	Surface 500W x 650H x 137D	
	2.5 Amp	No	Surface 500W x 650H x 137D	
		Yes	Surface 500W x 650H x 137D	

### Extras

Product Description		Code	
32 LED extension PCB	All Red	<b>K742</b>	
	16 Red/ 16 Yellow	<b>K750</b>	
	All Green	<b>K751</b>	
Fibre optic cable with light pipe - extension kit	Kit of 5	<b>KFOC5</b>	
	Kit of 10	<b>KFOC10</b>	
Fibre optic cutting tool		<b>B5712</b>	

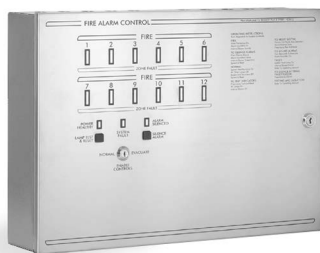
### Additional Info

#### Hints & Tips

Sigma Matrix can also be supplied in a bespoke size with up to 320 LED's. Please contact our sales staff for a quotation.  
Sigma Matrix can be configured to operate via switched positive or negative inputs providing compatibility with a wide range of input/output boards.  
Semi flushing collars are available, please see page 64.



## 15. Series 3000 | Conventional Fire Control Panels



**Product Data sheet:** DS01 (see website)  
**Product Manual:** Man-1050 (see website)  
**Enclosure:** 1.2mm mild sheet steel  
**Battery Capacity:** 12Z - 32Z - Up to 12Ah  
 40Z - 48Z - Up to 17Ah  
**Finish/Colour:** Lid - EPC (Ral 7047, light grey)  
 Box - EPC (BS 00 A 05, mid grey fine texture)

NOT  
SUITABLE  
FOR EU  
MARKETS

### Panels

Product Description	PSU	No. Zones	Enclosure Details (mm)	Code
<b>Series 3000</b> Conventional Fire Control Panel <div>NOT SUITABLE FOR EU MARKETS</div>	<b>2.5 Amp**</b> (S407)	<b>12 Zones</b>	Surface 570W x 420H x 110D	<b>E30120 05</b>
			Flush 576W x 426H x 108D	<b>E30120 06*</b>
		<b>16 Zones</b>	Surface 570W x 420H x 110D	<b>E30160 05</b>
			Flush 576W x 426H x 108D	<b>E30160 06*</b>
		<b>24 Zones</b>	Surface 570W x 420H x 110D	<b>E30240 05</b>
			Flush 576W x 426H x 108D	<b>E30240 06*</b>
	<b>5.25 Amp**</b> (S406)	<b>32 Zones</b>	Surface 600W x 700H x 140D	<b>E30320 07</b>
			Flush 606W x 706H x 115D	<b>E30320 08*</b>
		<b>12 Zones</b>	Surface 570W x 420H x 110D	<b>K30120 05</b>
			Flush 576W x 426H x 108D	<b>K30120 06*</b>
		<b>16 Zones</b>	Surface 570W x 420H x 110D	<b>K30160 05</b>
			Flush 576W x 426H x 108D	<b>K30160 06*</b>
		<b>24 Zones</b>	Surface 570W x 420H x 110D	<b>K30240 05</b>
			Flush 576W x 426H x 108D	<b>K30240 06*</b>
		<b>32 Zones</b>	Surface 600W x 700H x 140D	<b>K30320 07</b>
			Flush 606W x 706H x 115D	<b>K30320 08*</b>
		<b>40 Zones</b>	Surface 600W x 700H x 140D	<b>K30400 07</b>
			Flush 606W x 706H x 115D	<b>K30400 08*</b>
		<b>48 Zones</b>	Surface 700W x 1000H x 145D	<b>K30480 09</b>
			Flush 706W x 1006H x 145D	<b>K30480 10*</b>

Conventional

### Extras

See Note  
on Page 7

Product Description	Code
SB04-4 4 Way Plug-in Sounder Card	<b>K256</b>
SB04-2 2 Way Plug-in Sounder Card	<b>K260</b>
LCMU Line Continuity Monitoring Unit	<b>K14060</b>

### Spares

Product Description	Code
CON.05 Main 4 Zone Controller PCB	<b>K250S</b>
Controller PCB 4 Zone Controller PCB (For panels of 16 Zones & upwards)	<b>K261S</b>
K4ZMS - 4 Zone Extender PCB	<b>K251S</b>
K8ZMS - 8 Zone Extender PCB	<b>K252S</b>
2.5 Amp Charger unit (chassis only)	<b>S407</b>
5.25 Amp Charger unit (chassis only)	<b>S406</b>

### Additional Info

#### Hints & Tips

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

\*\* If you need a spare PSU for an existing product, please contact Sales to discuss your requirements. All panels are supplied with end of line resistors fitted. 6K8 on the Zones and 10K for the Sounders.

To comply with the requirements of BS5839 Part 1, one LCMU (K14060) per zone is required when used with Schottky diode bases.

K3000 are designed and manufactured to BS5839-4. They do not carry EN54-2/4 certification.

K3000 series conventional control panels have zonal volt free contacts as standard.

Additional sounder circuits can be provided by adding SB04 plug-in card.

Repeater panels are available for K3000 Series. (See page 46).

## 16. Series 3200

## Conventional Fire Control Repeater Panels



<b>Product Data sheet:</b>	DS02 (see website)
<b>Product Manual:</b>	Man-1049 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	Lid - EPC (Ral 7047, light grey) Box - EPC (BS 00 A 05, mid grey fine texture)

### Panels

Product Description	No. Zones	Enclosure Details (mm)	Code	
<b>Series K3200</b> Conventional Fire Alarm Repeater Panel c/w Common Fault & Buzzer Mute	<b>12 Zones</b>	Surface 365W x 290H x 88D	<b>K32120 01</b>	
		Flush 370W x 295H x 100D	<b>K32120 02*</b>	
	<b>16 Zones</b>	Surface 365W x 290H x 88D	<b>K32160 01</b>	
		Flush 370W x 295H x 100D	<b>K32160 02*</b>	
	<b>24 Zones</b>	Surface 365W x 290H x 88D	<b>K32240 01</b>	
		Flush 370W x 295H x 100D	<b>K32240 02*</b>	
	<b>32 Zones</b>	Surface 500W x 355H x 108D	<b>K32320 03</b>	
		Flush 506W x 360H x 100D	<b>K32320 04*</b>	
	<b>40 Zones</b>	Surface 570W x 420H x 110D	<b>K32400 05</b>	
		Flush 576W x 426H x 108D	<b>K32400 06*</b>	
	<b>48 Zones</b>	Surface 570W x 420H x 110D	<b>K32480 05</b>	
		Flush 576W x 426H x 108D	<b>K32480 06*</b>	

### Spares

Product Description	Code	
Replacement for 12 Zone Repeater	<b>K262</b>	
Replacement Master PCB for 16 Zones and above	<b>K174</b>	
Replacement Slave PCB for 16 Zones and above	<b>K175</b>	

### Additional Info

#### Hints & Tips

\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.  
 Repeat panels have zonal fire and common fault indication with buzzer mute and lamp test facility.  
 Connection from K3200 Repeater panels to K3000 panels required is number of zones +3.

# Extinguishant System Control Equipment

Sigma XT 3 Zone Single Area Extinguishant Control Panels to BS EN12094-1	48	51	Sigma XT Ancillaries Extinguishant Abort Button, Hold off Unit & Keyswitch Units
Sigma XT+ Mutli Area Extinguishant Control Panels to BS EN12094-1	49	52	Syncro XT+ Mutli Area Addressable Extinguishant Control Panels
Sigma Si Extinguishant Status Indicators	50		

## 17. Sigma XT | 3 Zone Single Area Extinguishant Control Panels to BS EN12094-1



<b>Product Data sheet:</b>	D540 - Sigma XT (see website)
<b>Product Manual:</b>	Man-1088 - Sigma XT Main Manual (see website) Man-1091 - Sigma XT User Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Certification:</b>	BS EN12094-1, BS EN54-2: BS EN54-4

### Panels

Product Description	Enclosure Details (mm)	Code	
<b>Sigma XT</b> - Extinguishant Control Panel	Surface 385W x 310H x 90D	<b>K11031 M2</b>	
	Flush 415W x 315H x 86D	<b>K11031 F2*</b>	

### Extras

Product Description	Enclosure Details (mm)	Code	
Boxed Sigma XT Ancillary PCB	Surface 385W x 310H x 90D	<b>K03000 M2</b>	
Boxed Sigma XT Ancillary PCB with 0.75 Amp PSU	Surface 385W x 310H x 90D	<b>K03750 M2</b>	
Tamper Resistant Vision Window (easy to retrofit on site)	385W x 310H (fits M2 box)	<b>K18002</b>	
Semi Flushing Collar	385W x 310H (fits M2 box)	<b>M2FCLGT</b>	

See Note  
on Page 7

### Spares

Product Description	Code	
Sigma XT Extinguishant control panel PCB	<b>K509</b>	
Sigma XT Extinguishant control panel PCB c/w plate (English Language Only)	<b>K11509</b>	
Sigma XT Ancillary PCB	<b>K588</b>	
Transformer	<b>B2761</b>	

### Additional Info

#### Hints & Tips

- \* Sizes quoted are for the back box, the bezel extends a further 15mm all round.
- Sigma XT Extinguishant control panels have 3 detection zones, count down timer display & extract control facility as standard.
- Sigma XT supports Sigma Si status indicators (up to 7 per panel) via a 4 core cable (data & power).
- Sigma XT Extinguishant control panels have been tested & certified to EN12094-1.

## 18. Sigma XT+

## Multi-Area Extinguishant Control Panels to BS EN12094-1



<b>Product Data sheet:</b>	D550 - Sigma XT+ (see website)
<b>Product Manual:</b>	Man-1111 - Sigma XT+ Coincidence Unit (see website) Man-1112 - Sigma XT+ Multi-Area (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah - (K21001, K21021, K21041, K21042, K21081, K21082) Up to 12Ah - (K21083, K21084)
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture) Controls Plate - EPC (Ral 7047, light grey)
<b>Certification:</b>	BS EN12094-1, BS EN54-2: BS EN54-4

### Panels

Product Description	Ext. Areas	Enclosure Details (mm)	Code
<b>Sigma XT+</b> Extinguishant Coincidence unit	1 Area	Surface 385W x 310H x 110D	<b>K21001 M2</b>
<b>Sigma XT+ 2 Zone</b> - Extinguishant Control Panel	1 Area	Surface 385W x 520H x 110D	<b>K21021 M3</b>
<b>Sigma XT+ 4 Zone</b> Extinguishant Control Panel	1 Area	Surface 385W x 520H x 110D	<b>K21041 M3*</b>
	2 Area	Surface 385W x 520H x 110D	<b>K21042 M3</b>
<b>Sigma XT+ 8 Zone</b> Extinguishant Control Panel	1 Area	Surface 385W x 520H x 110D	<b>K21081 M3*</b>
	2 Area	Surface 385W x 520H x 110D	<b>K21082 M3</b>
	3 Area	Surface 385W x 700H x 145D	<b>K21083 M4*</b>
	4 Area	Surface 385W x 700H x 145D	<b>K21084 M4</b>

### Extras

Product Description		Code	
Extinguishant module including PCB and plate (Can be retrofitted to upgrade system)*		K700	
Semi Flushing Collar	385W x 310H (fits H2 box)	M2FCLGT	
	385W x 520H (fits M3 box)	M3FCLGT	
	385W x 700H (fits M4 box)	M4FCLGT	
LCMU Line Continuity Monitoring Unit		K14060	
Sigma CP Ancillary PCB		K580	
Sigma CP Sounder PCB		K461	
Sigma XT Ancillary PCB		K588	

### Spares

Product Description			Code	
Replacement Extinguishant PCB	Coincidence Unit		K597	
	Extinguishant Panel		K718	
Sigma CP - Replacement Panel PCB - Four Wire	2 Zones		K444C	
	4 Zones		K445C	
	8 Zones	1 & 2 Area	K446C	
		3 & 4 Area	K719	

### Additional Info

#### Hints & Tips

\* Items marked can be upgraded to include an additional releasing module K700.  
See page 50 for compatible status units.  
Tamper Resistant Vision Windows are available, please see "Ancillary Items" page 63.

## 19. Sigma Si | Extinguishant Status Indicators



<b>Product Data sheet:</b>	DS41 - Sigma Si (see website)
<b>Product Manual:</b>	Man-1089 - Sigma Si Manual (see website) Man-1097 - Sigma Si Weatherproof Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)

### Panels

Product Description			Enclosure Details (mm)		Code	
<b>Sigma Si - Extinguishant Status Unit</b>	6 Lamps	Standard	Surface	186W x 132H x 50D	<b>K911000 M8</b>	
			Flush	186W x 132H x 55D	<b>K911000 F8*</b>	
		with Mode Select function	Surface	186W x 132H x 50D	<b>K911100 M8</b>	
			Flush	186W x 132H x 55D	<b>K911100 F8*</b>	
		with Manual Release function	Surface	186W x 132H x 50D	<b>K911010M8</b>	
			Flush	186W x 132H x 55D	<b>K911010F8*</b>	
	10 Lamps	with Mode Select & Manual Release function	Surface	186W x 132H x 50D	<b>K911110 M8</b>	
			Flush	186W x 132H x 55D	<b>K911110 F8*</b>	
		with Mode Select & Manual Release function	Surface	186W x 132H x 50D	<b>K911113 M8**</b>	
			Flush	186W x 132H x 55D	<b>K911113 F8* **</b>	
<b>Sigma Si - Weatherproof (IP65) Extinguishant Status Unit</b>	6 Lamps	Standard	Surface	256W x 170H x 60D	<b>W911000 W8</b>	
		with Mode Select function	Surface	256W x 170H x 60D	<b>W911100 W8</b>	
		with Mode Select & Manual Release function	Surface	256W x 170H x 60D	<b>W911110 W8</b>	
	10 Lamps	with Mode Select & Manual Release function	Surface	256W x 170H x 60D	<b>W911113 W8*</b>	

### Extras

Product Description		Enclosure Details		Code	
Semi Flushing Collar	Economy (basic flushing collar)	186W X 132H (fits M8 box)		<b>M8FCLGT</b>	
	Standard (multi purpose flushing collar)	186W X 132H (fits M8 box)		<b>M8FCSLGT</b>	

### Spares

Product Description			Code	
Sigma Si Extinguishant status unit PCB			<b>K569</b>	

### Additional Info

#### Hints & Tips

- \* Sizes quoted are for the back box, the bezel extends a further 15mm all round.
- \*\* "Sigma Si" 10 lamp version is not suitable for use with Sigma XT+ control panels.
- "Sigma Si" status units can only be used with Sigma XT and Sigma XT+ control panels.
- "Sigma Si" flush mounting versions are now supplied with back boxes.



Model: W911113W8  
Weatherproof Version  
(IP65)

## 20. Sigma XT Ancillaries



<b>Product Data sheet:</b>	DS86 - Extinguishant Abort Button, Hold off Unit & Keyswitch Units (see website)
<b>Product Manual:</b>	Man-1083 - Hold Off Unit Manual (see website) Man-1207 - Extinguishant Abort Unit (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)

### Panels

Product Description		Enclosure Details (mm)		Code	
Sigma XT - Extinguishant Hold Off Unit	Green Button Grey lid & box (BS00A05)	Surface	97W x 97H x 50D	K91000 M10	
	Red Button White lid & box (BS7273)	Surface	97W x 97H x 50D	KB91000 M10	
Sigma XT - System Abort Button Unit		Surface	97W x 97H x 50D	K13470 M10	
Sigma XT - Extinguishant Extract Keyswitch Unit		Surface	97W x 97H x 50D	K13520 M10	
Sigma XT - Main/ Reserve Duty Extinguishant Keyswitch Unit		Surface	97W x 97H x 50D	K13480 M10	

### Extras

Product Description	Enclosure Details	Code	
Semi Flushing Collar	97W X 97H (fits M10 box)	M10FCLGT	

### Additional Info

#### Hints & Tips

“Sigma Si” Keyswitch Units can only be used with Sigma XT and Sigma XT+ control panels.



Model No. K13470M10



Model No. K91000M10  
(Grey box, Green Button)



Model No. KB91000M10  
(White box, Red Button)



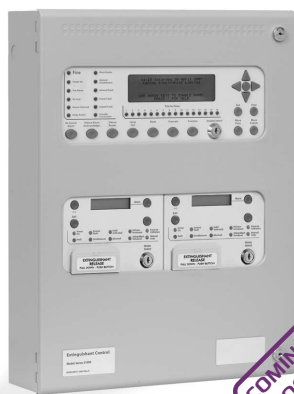
Model No. K13480M10



Model No. K13520M10

## 21. Syncro XT+

## Multi Area Addressable Extinguishant Control Panels



COMING SOON

<b>Product Data sheet:</b>	D558 (see website)
<b>Product Manual:</b>	Man-1197 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah
<b>Finish/Colour:</b>	Lid & Box EPC (BS 00 A 05, mid grey fine texture)
<b>Protocol:</b>	See Below
<b>Loop Explorer:</b>	Loop Explorer 2 (LE2) must be used with this product

CHECK  
CPR  
APPROVAL

### Panels

Product Description	Protocol	Ext. Areas	No. Loops	Enclosure Details (mm)		Code	
<b>Syncro XT+</b> Multi Area Addressable Extinguishant Control Panel	Apollo	1 Area	1 Loop	Surface	385W x 520H x 110D	<b>A31161 M3</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 520H x 110D	<b>A32161 M3</b>	<input type="checkbox"/>
		2 Area	1 Loop	Surface	385W x 520H x 110D	<b>A31162 M3</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 520H x 110D	<b>A32162 M3</b>	<input type="checkbox"/>
		3 Area	1 Loop	Surface	385W x 700H x 145D	<b>A31163 M4</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 700H x 145D	<b>A32163 M4</b>	<input type="checkbox"/>
		4 Area	1 Loop	Surface	385W x 700H x 145D	<b>A31164 M4</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 700H x 145D	<b>A32164 M4</b>	<input type="checkbox"/>
	Hochiki ESP	1 Area	1 Loop	Surface	385W x 520H x 110D	<b>H31161 M3</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 520H x 110D	<b>H32161 M3</b>	<input type="checkbox"/>
		2 Area	1 Loop	Surface	385W x 520H x 110D	<b>H31162 M3</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 520H x 110D	<b>H32162 M3</b>	<input type="checkbox"/>
		3 Area	1 Loop	Surface	385W x 700H x 145D	<b>H31163 M4</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 700H x 145D	<b>H32163 M4</b>	<input type="checkbox"/>
		4 Area	1 Loop	Surface	385W x 700H x 145D	<b>H31164 M4</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 700H x 145D	<b>H32164 M4</b>	<input type="checkbox"/>
	Argus Vega	1 Area	1 Loop	Surface	385W x 520H x 110D	<b>V31161 M3</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 520H x 110D	<b>V32161 M3</b>	<input type="checkbox"/>
		2 Area	1 Loop	Surface	385W x 520H x 110D	<b>V31162 M3</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 520H x 110D	<b>V32162 M3</b>	<input type="checkbox"/>
		3 Area	1 Loop	Surface	385W x 700H x 145D	<b>V31163 M4</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 700H x 145D	<b>V32163 M4</b>	<input type="checkbox"/>
		4 Area	1 Loop	Surface	385W x 700H x 145D	<b>V31164 M4</b>	<input type="checkbox"/>
			2 Loops	Surface	385W x 700H x 145D	<b>V32164 M4</b>	<input type="checkbox"/>

See Note  
on Page 7



## Panels

Product Description		Enclosure Details (mm)		Code	
<b>Syncro Si **</b> - Addressable Extinguishant Status Unit (Apollo Protocol only)	Standard	Surface	186W x 132H x 50D	<b>A91000 M8</b>	
		Flush	186W x 132H x 55D	<b>A91000 F8*</b>	
	with Manual Release function	Surface	186W x 132H x 50D	<b>A91100 M8</b>	
		Flush	186W x 132H x 55D	<b>A91100 F8*</b>	
	with Manual Release & Mode Select function	Surface	186W x 132H x 50D	<b>A91110 M8</b>	
		Flush	186W x 132H x 55D	<b>A91110 F8*</b>	
<b>Syncro Si **</b> - Weatherproof (IP65) Addressable Extinguishant Status Unit (Apollo Protocol only)	Standard	Surface	256W x 170H x 60D	<b>A91000 W8</b>	
	with Manual Release function	Surface	256W x 170H x 60D	<b>A91100 W8</b>	
	with Manual Release & Mode Select function	Surface	256W x 170H x 60D	<b>A91110 W8</b>	
<b>Syncro Si **</b> - Extinguishant hold off switch unit (White lid + box)		Surface	97W x 97H x 50D	<b>A90001 M10</b>	

## Extras

Product Description			Code	
Syncro AS Loop 2 Extension Card	Apollo Protocol		K586A	
	Argus Vega Protocol		K586V	
	Hochiki ESP Protocol		K586H	
Syncro I/O - 16 Channel I/O board			K560	
Syncro I/O - 8 Way Relay Extender Board			K547	
Syncro I/O - 6 Way Sounder Extender Board			K546	
Syncro I/O - 4 Way Conventional Detection Zone Module			K545	

## Spares

Product Description		Code	
Replacement Extinguishant PCB		<b>K597</b>	
Syncro AS Controller PCB	Apollo	<b>KX785A</b>	
	Argus Vega	<b>KX785V</b>	
	Hochiki ESP	<b>KX785H</b>	

## Additional Info

## Hints &amp; Tips

\* Sizes quoted are for the back box, the bezel extends a further 15mm all round.

\*\* Syncro Si status and hold off units are addressable and can only be used with Apollo protocol Syncro XT+ control panels.

All protocols are compatible with Sigma Si status and hold off units. (See page 50).

Syncro Si status and hold off units are wired on the Syncro detection loop.

Syncro XT+ panels can be programmed with dedicated Syncro XT+ Software.

Semi flushing collars are available, please see page 64.



# Power Supplies

Battery Chargers &  
Power Supplies

56

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Battery Enclosure  
& Batteries

## 22. Battery Chargers & Power Supplies



Sigma CP style

<b>Product Data sheet:</b>	DS61 (see website)
<b>Product Manual:</b>	Man-1128 (S406) (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)
<b>Certification:</b>	BS EN54-4



LPCB Ref. 360a

### Panels

Product Description	PSU	Battery Info	Enclosure Details (mm)	Code	
<b>Unboxed Power Supplies</b>	<b>2.5A</b>	N/A	N/A	<b>S407</b>	
	<b>5.25A</b>	N/A	N/A	<b>S406</b>	
	<b>10.25A</b>	N/A	N/A	<b>S408</b>	
<b>Power Supply (Boxed)</b> To match Syncro Styling	<b>2.5A</b>	Max. 12Ah Battery	Surface 500W x 355H x 117D	<b>K25250 03</b>	
			Surface 500W x 355H x 117D	<b>KD25250 03*</b>	
	<b>5.25A</b>	Max. 17Ah Battery	Surface 500W x 355H x 117D	<b>K25400 03</b>	
			Surface 500W x 355H x 117D	<b>KD25400 03*</b>	
		Max. 26Ah Battery	Surface 500W x 460H x 190D	<b>K25400 15</b>	
			Surface 500W x 460H x 190D	<b>KD25400 15*</b>	
	<b>10.25A</b>	Max. 17Ah Battery	Surface 500W x 355H x 117D	<b>K25800 03</b>	
			Surface 500W x 355H x 117D	<b>KD25800 03*</b>	
		Max. 45Ah Battery	Surface 500W x 460H x 190D	<b>K25800 15</b>	
			Surface 500W x 460H x 190D	<b>KD25800 15*</b>	
<b>Power Supply (Boxed)</b> To match Sigma CP/XT Styling	<b>2.5A</b>	Max. 7Ah Battery	Surface 385W x 310H x 90D	<b>K25250 M2</b>	
			Surface 385W x 310H x 90D	<b>KD25250 M2</b>	
		Max. 12Ah Battery	Surface 385W x 520H x 110D	<b>K25250 M3</b>	
			Surface 385W x 520H x 110D	<b>KD25250 M3*</b>	
	<b>5.25A</b>	Max. 17Ah Battery	Surface 385W x 520H x 110D	<b>K25400 M3</b>	
			Surface 385W x 520H x 110D	<b>KD25400 M3*</b>	
	<b>10.25A</b>	Max. 17Ah Battery	Surface 385W x 520H x 110D	<b>K25800 M3</b>	
			Surface 385W x 520H x 110D	<b>KD25800 M3*</b>	
		Max. 45Ah Battery	Surface 385W x 520H x 200D	<b>K25800 D3</b>	
			Surface 385W x 520H x 200D	<b>KD25800 D3*</b>	

## 22. Battery Chargers & Power Supplies (Continued)

### Extras

Product Description		Code	
Semi Flushing Collar	385W x 310H (M2) Cabinet	<b>M2FCLGT</b>	
	385W x 520H (M3) Cabinet	<b>M3FCLGT</b>	
	500W x 355H Cabinet	<b>M266LGT</b>	
	500W x 460H Cabinet	<b>M272LGT</b>	

### Spares

Product Description		Code	
2.5A Charger Unit - Chassis only		<b>S407</b>	
5.25A Charger Unit - Chassis only		<b>S406</b>	
10.25A Charger Unit - Chassis only		<b>S408</b>	
Dual power output board retrofit kit - RPSM2 (also provides a fault output from the charger)		<b>K738</b>	

### Additional Info

#### Photographs



Sigma style (K25400M3)



Syncro style (K2540003)

\*Models with KD prefix are fitted with dual power output monitoring module for compliance with EN54-4 clause 6.4 Power supply Interface.

## 23. Battery Enclosures & Batteries



Sigma CP style

**Enclosure:**

1.2mm mild steel

**Finish/Colour:**

Lid & Box - EPC (BS 00 A 05, mid grey fine texture)

### Panels

Product Description	Battery Info	Enclosure Details (mm)	Code	
<b>Battery Box</b> To match Syncro Styling	Max. 18Ah Battery	Surface 500W x 355H x 108D	<b>K16202 03</b>	
	Max. 24Ah Battery	Surface 500W x 355H x 145D	<b>K16199 11</b>	
	Max. 38Ah Battery	Surface 500W x 355H x 205D	<b>K16303 13</b>	
	Max. 65Ah Battery	Surface 720W x 300H x 300D	<b>K16102 45</b>	
<b>Battery Box</b> To match Sigma CP/XT & Syncro AS Styling	Max. 7Ah Battery	Surface 385W x 310H x 90D	<b>K16100 M2</b>	
	Max. 18Ah Battery	Surface 385W x 520H x 110D	<b>K16100 M3</b>	
	Max. 38Ah Battery	Surface 385W x 520H x 200D	<b>K16100 D3</b>	
<b>Sealed Lead Acid Battery - 12 Volt</b>	2 A/H	N/A	<b>K1700</b>	
	2.8 A/H	N/A	<b>K1710</b>	
	7 A/H	N/A	<b>K1715</b>	
	9 A/H	N/A	<b>K1717</b>	
	12 A/H	N/A	<b>K1720</b>	
	18 A/H	N/A	<b>K1725</b>	
	24 A/H	N/A	<b>K1735</b>	
	38 A/H	N/A	<b>K1740</b>	

# Miscellaneous

Conventional Sounder Controller Units	60	63	Hydrosense Water Detection Equipment
Warning Signs Illuminated Signs Using High Intensity LED Indicators	61	64	Miscellaneous Items & Replacement Parts
Audio Visual Audible and Visual Indicator Units	62	66	Spares & Replacement Parts Older Products
Ancillary Items	63		

## 24. Conventional Sounder Controller Units



<b>Product Data sheet:</b>	D548 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah* Up to 4Ah**
<b>Finish/Colour:</b>	Lid & Box - EPC (B5 00 A 05, mid grey fine texture)

### Panels

Product Description		Enclosure Details (mm)	Code	
Conventional Sounder Control Unit	2 Way (5.25A PSU)	Surface 500W x 355H x 108D	<b>K17402 03*</b>	
	4 Way (5.25A PSU)	Surface 500W x 355H x 108D	<b>K17404 03*</b>	
	6 Way (5.25A PSU)	Surface 500W x 355H x 108D	<b>K17406 03*</b>	
Sigma CP Sounder PCB	c/w Enclosure	Surface 385W x 310H x 90D	<b>K04000 M2**</b>	
	c/w Enclosure & 5.25A PSU	Surface 385W x 310H x 90D	<b>K04400 M2**</b>	

### Extras

Product Description		Code	
Semi Flushing Collar	500W x 355H Cabinet	<b>M266LGT</b>	
	385W x 310H (M2) Cabinet	<b>M2FCLGT</b>	

### Spares

Product Description	Code	
5.25 Amp EN54-54 Charger Unit (Chassis only)	<b>S406</b>	
2 Way Sounder Card	<b>S577</b>	
2 Way Sounder Extender Card	<b>S152</b>	
Sigma CP Sounder PCB	<b>K461</b>	

### Additional Info

#### Hints & Tips

Conventional sounder controllers provide additional sounder circuits or additional sounder circuit capacity for most conventional Fire Detection Systems



## 25. Warning Signs | Illuminated Signs Using High Intensity LED Indicators



<b>Product Data sheet:</b>	DS64 (see website)
<b>Product Manual:</b>	Man-1139 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)

### Panels

Product Description	Text Colour	Wording	Enclosure Details (mm)	Code	
<b>Illuminated Sign</b>	Red on Black	"FIRE ALARM DO NOT ENTER"	Surface 300W x 195H x 50D	<b>K27102</b>	
	Red on Black	"FIRE ALARM EVACUATE AREA"	Surface 300W x 195H x 50D	<b>K27101</b>	
	Black on Yellow	"EXTINGUISHING SYSTEM ACTIVATED"	Surface 300W x 195H x 50D	<b>K27202</b>	
<b>Illuminated Sign Special Designation</b> (printed acrylic front only)	Red on Black	(Specify text)	Surface 300W x 195H x 50D	<b>X2710</b>	
	Black on Yellow	(Specify text)	Surface 300W x 195H x 50D	<b>X2720</b>	
	Black on Green	(Specify text)	Surface 300W x 195H x 50D	<b>X2730</b>	
<b>Illuminated Sign Weatherproof</b>	Red on Black	"FIRE ALARM DO NOT ENTER"	Surface 300W x 230H x 86D	<b>WK27102</b>	
	Red on Black	"FIRE ALARM EVACUATE AREA"	Surface 300W x 230H x 86D	<b>WK27101</b>	
	Black on Yellow	"EXTINGUISHING SYSTEM ACTIVATED"	Surface 300W x 230H x 86D	<b>WK27202</b>	
<b>Illuminated Sign Weatherproof Special Designation</b> (printed acrylic front only)	Red on Black	(Specify text)	Surface 300W x 230H x 86D	<b>WX2710</b>	
	Black on Yellow	(Specify text)	Surface 300W x 230H x 86D	<b>WX2720</b>	
	Black on Green	(Specify text)	Surface 300W x 230H x 86D	<b>WX2730</b>	

### Extras

Product Description			Code	
Semi Flushing Collar			<b>M948LGT</b>	
Replacement Printed Acrylic Piece	Red on Black	"FIRE ALARM DO NOT ENTER"	<b>M945PRUK</b>	
	Red on Black	"FIRE ALARM EVACUATE AREA"	<b>M945PRUK2</b>	
	Black on Yellow	"EXTINGUISHING SYSTEM ACTIVATED"	<b>M945PYUK</b>	
	Special Designation - Specify text		<b>X2700</b>	

### Additional Info

#### Hints & Tips

For dual background versions, contact sales on +44 (0) 01322 222121

Split level function - allows top half and bottom half of sign to be illuminated independently with no light spillage between halves.



Weatherproof  
Version

## 26. Plant Isolate/ Audio Visual | Audible and Visual Indicator Units



<b>Product Data sheet:</b>	DS63 (see website)
<b>Product Manual:</b>	Man-1137 (see website)
<b>Enclosure:</b>	1.5mm mild sheet steel
<b>Finish/Colour:</b>	Lid & Box - EPC (BS 00 A 05, mid grey fine texture)

### Panels

Product Description	Designations	Keyswitch	Enclosure Details (mm)	Code
<b>Audio Visual</b> <b>Red Fire Alarm Indicator</b> (Red LEDs)	ALARM	No	Surface 97W x 97H x 50D	<b>K24100-M10</b>
	ALARM Turn Key to Silence	Silence Keyswitch (retained)	Surface 97W x 97H x 50D	<b>K24110-M10</b>
<b>Plant Isolate</b> <b>Yellow Alarm Indicator</b> (Yellow LEDs)	PLANT ISOLATED	No	Surface 97W x 97H x 50D	<b>K24200-M10</b>
	PLANT ISOLATE Turn Key to Isolate	Isolate Keyswitch (retained)	Surface 97W x 97H x 50D	<b>K24210-M10</b>

### Extras

Product Description	Code
Semi Flushing Collar	<b>M10FCLGT</b>

### Additional Info

#### Hints & Tips

These images show how the Plant Isolate/ Audio Visual Units come supplied but you can create your own customised designations using our special template at [www.kentec.co.uk/Audio.doc](http://www.kentec.co.uk/Audio.doc)  
We are able to carry out this work on your behalf. There will be a one off charge of £20-00 for this service.



\* Sizes quoted are for the flush panel back box, the bezel extends a further 15mm all round.

## 27. Ancillary Items

### Equipment

Product Description		Enclosure Details (mm)		Code
LCMU - Line Continuity Monitoring Unit		N/A		<b>K14060</b>
Tamper Resistant Vision Window (easy to retrofit on site*)		385W x 310H (fits M2 box)		<b>K18002</b>
		385W x 520H (fits M3 box)		<b>K18003</b>
		385W x 700H (fits M4 box)		<b>K18004</b>
Sigma Doc Box - Document Enclosure	Standard Version	Surface	385W x 310H x 60D	<b>K16000 L2</b>
	Deep Version	Surface	385W x 310H x 90D	<b>K16000 M2</b>
	Extra Deep Version	Surface	385W x 310H x 110D	<b>K16000 H2</b>
Remote Fire Detector Indicator Unit (Printed "Fire Alarm in Concealed Space")	Square	N/A		<b>K24001</b>
	Round	N/A		<b>K24000</b>
Remote Indicator Unit Ceiling Mounting Clip	Round	N/A		<b>M24000</b>
Relay Unit Box Only c/w Din Rail	Small	Surface	121W x 170H x 76D	<b>K1425 29</b>
	Large	Surface	170W x 201H x 76D	<b>K1426 31</b>
Relay Boards	Single Way	N/A		<b>K375</b>
	Four Way	N/A		<b>K376</b>
Relay Unit c/w 1 x 2 Pole c/o 10 Amp Relay		Surface	121W x 170H x 76D	<b>K14101</b>
Relay Unit c/w 2 x 2 Pole c/o 10 Amp Relay		Surface	121W x 170H x 76D	<b>K14152 29</b>
Relay Unit c/w 3 x 2 Pole c/o 10 Amp Relay		Surface	170W x 201H x 76D	<b>K14203 29</b>
2 Way Sounder Extender Module with Interface (For use with existing panels)		N/A		<b>K577</b>

## 28. Hydrosense - Water Detection Equipment



**VIMPEX**  
Shaping Alarm Technology

All Hydrosense Water Detection products are only available through our European Distributor Vimpex Ltd.  
Tel: +44 (0)1702 - 216999 Fax: +44 (0)1702 - 216699  
E-mail: sales@vimpex.co.uk Web: www.vimpex.co.uk

\* Surface mounted enclosures only

## Miscellaneous Items & Replacement Parts

### Spares

### Miscellaneous Items

Product Description		Code	
Spare Key Set - Comprises:	1x Enable Switch Key (Ref. 901) 1x Cabinet Lock Key (Ref. 801) 1x Cabinet Lock Key (Ref. FH001) 1x Cabinet Lock Key (Ref. KT3001)	<b>S005</b>	
Replacement Cabinet Lock	Panels with product codes ending in: 01, 02	<b>B1739</b>	
	Panels with product codes ending in: 03, 04, 05, 06, 07, 08, 09, 10, 11, 13, 14, 15, S3, S4	<b>B1695</b>	
	Panels with product codes ending in: M1, M2, L2, H2, F2, M3, H3, D3, M4	<b>B3225</b>	
	Retrofit Vision Window Cover (K18002, K18003)	<b>B2838</b>	
Replacement Enable Control Switch	Two Position	<b>B1828</b>	
	Three Position	<b>B1830</b>	
Replacement Auto/Manual Switch	Two Position	<b>B1829</b>	
Thermal Printer Paper Roll	80mm Wide Roll (Back loading printer)	<b>B2415</b>	
	57mm Wide Roll (Back loading printer)	<b>B2869</b>	
	58mm Wide Roll (New front loading printer)	<b>B3472</b>	

### Spares

### Semi Flushing Collars

Product Description		Enclosure Details (mm)	Code
<b>Semi Flushing collar to fit box size:-</b>  "LGT" collars are finished in 00-A-05  For other colours or finishes please contact our sales department on +44 (0)1322 222121.		97W x 97H (fits M10 box)	<b>M10FCLGT</b>
		186W x 132H (fits M8 box, Economy)	<b>M8FCLGT</b>
		186W x 132H (fits M8 box, Standard)	<b>M8FCSLGT</b>
		186W x 132H (Red)	<b>M8FCSRD</b>
		186W x 132H (Grey)	<b>M8FCSGY</b>
		300W x 195H	<b>M948LGT</b>
		330W x 255H (fits M1 box)	<b>M1FCLGT</b>
		385W x 310H (fits M2, L2, H2 box)	<b>M2FCLGT</b>
		385W x 520H (fits M3 box)	<b>M3FCLGT</b>
		385W x 700H (fits M4 box)	<b>M4FCLGT</b>
		368W x 310H (Red)	<b>AM2FCRD</b>
		368W x 310H (Grey)	<b>AM2FCGY</b>
		500W x 355H	<b>M266LGT</b>
		500W x 460H	<b>M272LGT</b>
		500W x 650H (fits S4 box)	<b>M925LGT</b>
		570W x 420H	<b>M267LGT</b>
		600W x 700H	<b>M268LGT</b>
		700W x 1000H	<b>M269LGT</b>

## Miscellaneous Items & Replacement Parts (Continued)

Spares		Panel Back Boxes (without lids)	
Product Description	Enclosure Details (mm)	Code	
<b>Plain painted back boxes</b>  "LGT" boxes are finished in B54800 00-A-05 (mid grey fine texture) polyester powder coat. (Suitable for indoor use only) For other colours or finishes please contact our sales department on +44 (0)1322 222121.	Surface 330W x 255H x 90D (Product codes ending in M1)	M1LGT	
	Surface 385W x 310H x 90D (Product codes ending in M2)	M2LGT	
	Surface 385W x 310H x 60D (Product codes ending in L2)	L2LGT	
	Flush 443W x 343H x 60D (Product codes ending in M2)	F2LGT	
	Surface 385W x 520H x 110D (Product codes ending in M3)	M3LGT	
	Surface 385W x 520H x 200D (Product codes ending in D3)	D3LGT	
	Surface 385W x 700H x 110D (Product codes ending in M4)	M4LGT	
	Surface 365W x 290H x 88D (Product codes ending in 01)	M500LGT	
	Flush 370W x 295H x 100D (Product codes ending in 02)	M499LGT	
	Surface 500W x 355H x 108D (Product codes ending in 03)	M202LGT	
	Surface 500W x 355H x 140D (Product codes ending in 11)	M199LGT	
	Surface 500W x 355H x 200D (Product codes ending in 13)	M303LGT	
	Surface 200W x 650H x 137D (Product codes ending in 54)	M922LGT	
	Flush 506W x 360H x 100D (Product codes ending in 04)	M206LGT	
	Flush 506W x 360H x 130D (Product codes ending in 14)	M210LGT	
	Surface 500W x 465H x 190D (Product codes ending in 15)	M175LGT	
	Surface 570W x 420H x 110D (Product codes ending in 05)	M160LGT	
	Flush 576W x 426H x 108D (Product codes ending in 06)	M161LGT	
	Surface 600W x 700H x 140D (Product codes ending in 07)	M180LGT	
	Flush 606W x 706H x 115D (Product codes ending in 08)	M183LGT	
	Surface 700W x 1000H x 145D (Product codes ending in 09)	M220LGT	
	Flush 706W x 1006H x 145D (Product codes ending in 10)	M226LGT	
	Surface 720W x 300H x 300D (Product codes ending in 45)	M102LGT	

## 29. Miscellaneous Items & Replacement Parts (Continued)

Spares		Replacement Panel Lids	
Product Description		Enclosure Details (mm)	Code
<b>Plain painted Lids</b>  "LGT" lids are finished in BS4800 00-A-05 (mid grey fine texture) polyester powder coat. (Suitable for indoor use only)  For other available lids, colours or finishes please contact our sales department on +44 (0)1322 222121.	Surface	385W x 310H (Product codes ending in M2)	<b>ML2LGT</b>
	Flush	410W x 310H (Product codes ending in F2)	<b>FL2LGT</b>
	Surface	385W x 310H (Product codes ending in M2 - no aperture)	<b>ML2ALGT</b>
	Surface	500W x 355H (Syncro plain lid. Product codes ending in 03)	<b>M695LGT</b>
	Surface	500W x 355H (Syncro plain lid with keyswitch hole Product codes ending in 03)	<b>M695KLGT</b>
	Flush	500W x 355H (Syncro plain lid. Product codes ending in 14)	<b>M696LGT</b>
	Flush	500W x 355H (Syncro plain lid with keyswitch hole Product codes ending in 14)	<b>M696KLGT</b>

## 30. Spares & Replacement Parts - Older Products

Spares		Older Style Panels	
Product Description		Code	
CON.05 - Controller PCB, 4 Zone (K4.01 or K4.01+)		<b>K250S</b>	
K4.01 Extinguishant Release PCB		<b>K283</b>	
K4.01+ Extinguishant Release PCB		<b>K334</b>	
K4PB - Optional Relay Card (Can be fitted to any K4.01+ Control Panel)		<b>K335</b>	
K2.01 Main Control Board		<b>K290</b>	
Charger Unit (Chassis Only)	2.5A	<b>S228A</b>	
	4.0A	<b>S300B</b>	
Extinguishant Section Display Card		<b>K459</b>	
Loop Controller Board - Apollo Protocol Only		<b>K549A</b>	
Extinguishant Status Board - Syncro Si		<b>K702</b>	

# UL/ FM Approved Panels

Elite  
Analogue Addressable  
Control Panels 2 or 4 loops

68

Elite RS  
Analogue Addressable  
Control Panels 1 or 2 loops

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eView  
Local LCD Repeaters

69

eMatrix  
Configurable Fire Alarm  
Mimic Display Panel

70

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Sigma A-CP  
Conventional Fire Control Panels

72

Sigma A-XT  
3 Zone Single Area Extinguishant  
Control Panels

73

Sigma A-Si  
Extinguishant Status Indicators

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PSU  
10Amp Power Supply

## 31. Elite | Analogue Addressable Fire Control Panels - 2 or 4 Loops - UL/ FM Approved



<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 17Ah
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey B5 00 A 05 semi-matt)
<b>Protocol:</b>	Apollo and Hochiki
<b>Certification:</b>	UL Listed and FM Approved



### Panels

Product Description	Protocol	Printer	Colour	Enclosure Details (mm)	Code	
<b>Elite - 2 Loops</b> Analogue Addressable Fire Control Panels	Apollo	No	Red	Surface 369W x 613H x 127D	<b>K1460-10</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1460-40</b>	●
		Yes	Red	Surface 369W x 613H x 127D	<b>K1460-13</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1460-43</b>	●
	Hochiki	No	Red	Surface 369W x 613H x 127D	<b>K1420-10</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1420-40</b>	●
		Yes	Red	Surface 369W x 613H x 127D	<b>K1420-13</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1420-43</b>	●
<b>Elite - 4 Loops</b> Analogue Addressable Fire Control Panels	Apollo	No	Red	Surface 369W x 613H x 127D	<b>K1480-10</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1480-40</b>	●
		Yes	Red	Surface 369W x 613H x 127D	<b>K1480-13</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1480-43</b>	●
	Hochiki	No	Red	Surface 369W x 613H x 127D	<b>K1440-10</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1440-40</b>	●
		Yes	Red	Surface 369W x 613H x 127D	<b>K1440-13</b>	●
			Grey	Surface 369W x 613H x 127D	<b>K1440-43</b>	●

See Note  
on Page 7

### Extras

Product Description		Enclosure Details (mm)	Code	
Semi Flushing Collar	Red	Surface 369W x 613H x 127D	<b>K1070-10</b>	
	Grey	Surface 369W x 613H x 127D	<b>K1070-40</b>	
2 Loop Expansion Card - Hochiki Protocol		N/A	<b>K1053-00</b>	
2 Loop Expansion Card - Apollo Protocol		N/A	<b>K1053-01</b>	
16 Channel RS485 Serial I/O Interface Card		N/A	<b>K1171-00</b>	
eNET Communications Interface Card		N/A	<b>K1170-00</b>	



## 32. Elite RS | Analogue Addressable Fire Control Panels - 1 or 2 Loops - UL/ FM Approved



<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 17Ah
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey BS 00 A 05 semi-matt)
<b>Protocol:</b>	Apollo and Hochiki
<b>Certification:</b>	UL Listed and FM Approved



### Panels

Product Description	Protocol	Colour	Enclosure Details (mm)	Code	
<b>Elite RS - 1 Loop</b> Analogue Addressable Fire Control Panels	Apollo	Red	Surface 369W x 481H x 110D	<b>K0850-10</b>	
		Grey	Surface 369W x 481H x 110D	<b>K0850-40</b>	
	Hochiki	Red	Surface 369W x 481H x 110D	<b>K0810-10</b>	
		Grey	Surface 369W x 481H x 110D	<b>K0810-40</b>	
<b>Elite RS - 2 Loops</b> Analogue Addressable Fire Control Panels	Apollo	Red	Surface 369W x 481H x 110D	<b>K0860-10</b>	
		Grey	Surface 369W x 481H x 110D	<b>K0860-40</b>	
	Hochiki	Red	Surface 369W x 481H x 110D	<b>K0820-10</b>	
		Grey	Surface 369W x 481H x 110D	<b>K0820-40</b>	

### Extras

Product Description		Enclosure Details (mm)	Code	
Semi Flushing Collar	Red	Surface 369W x 481H x 110D	<b>K1071-10</b>	
	Grey	Surface 369W x 481H x 110D	<b>K1071-40</b>	
1 Loop Expansion Card		N/A	<b>K1054-00</b>	
16 Channel RS485 Serial I/O Interface Card		N/A	<b>K1171-00</b>	
eNET Communications Interface Card		N/A	<b>K1170-00</b>	

## 33. eView | Local LCD Repeater Panels - UL/ FM Approved



<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 17Ah
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey BS 00 A 05 semi-matt)
<b>Certification:</b>	UL Listed and FM Approved



### Panels

Product Description	Colour	Enclosure Details (mm)	Code	
<b>eView</b> Analogue Addressable Repeater Panels	Red	Surface 263W x 191H x 42D	<b>K1172-10</b>	
	Grey	Surface 263W x 191H x 42D	<b>K1172-40</b>	

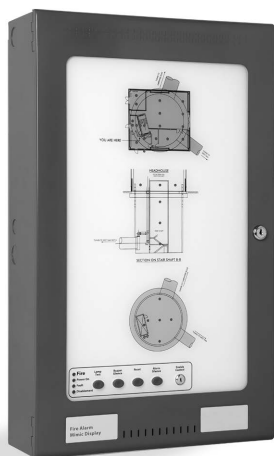
See Note on Page 7

### Extras

Product Description		Enclosure Details (mm)	Code	
Semi Flushing Collar	Red	Surface 263W x 191H x 42D	<b>K1173-10</b>	
	Grey	Surface 263W x 191H x 42D	<b>K1173-40</b>	

● Not for placement into EU Market (typical)

## 34. eMatrix | Configurable Fire Alarm Mimic Display Panel



<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 12Ah (required on mains powered versions only)
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey BS 00 A 05 semi-matt)
<b>Acrylic Drawing:</b>	3mm thick polycarbonate with printed building outline and backed in a solid colour
	Full colour print
<b>LED's:</b>	Red, Green or Yellow
<b>Compatibility:</b>	For use with Elite Analogue Addressable Control Systems only



### Panels

Product Description	Enclosure Details (mm)	
eMatrix - 'AM2' size, up to 24 LED's	Surface 369W x 310H x 90D	For a product code and price contact our sales department on +44 (0)1322 222121
eMatrix - 'AM3' size, up to 56 LED's	Surface 369W x 480H x 110D	
eMatrix - 'AM4' size, up to 56 LED's	Surface 369W x 610H x 127D	

See Note on Page 7

### Extras

Product Description		Code	
16 LED extension PCB	Red	VF1350-10	
	Yellow	VF1350-50	
	Green	VF1350-70	
Fibre optic cable with light pipe - extension kit	Kit of 5	VF1351-00	
	Kit of 10	VF1352-00	
Fibre optic cutting tool		VF1353-00	

### Additional Info

#### Hints & Tips

Syncro Matrix can be connected to any Elite and Elite RS control panel.

## 35. Sigma A-CP

## Conventional Fire Control Panels - UL Approved



<b>Product Data sheet:</b>	D578 (see website)
<b>Product Manual:</b>	Man-1194- Installation Manual (see website) Man-1195 - Operating Instructions Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey BS 00 A 05 semi-matt)
<b>Certification:</b>	UL Listed



### Panels

Product Description	No. Zones	Dialer	Colour	Enclosure Details (mm)	Code	
<b>Sigma A-CP</b> Conventional Fire Control Panels	2 Zones	No	Red	Surface 368W x 310H x 110D	<b>K1842-11</b>	
			Grey	Surface 368W x 310H x 110D	<b>K1842-41</b>	
		Yes	Red	Surface 368W x 310H x 110D	<b>K1852-11</b>	
			Grey	Surface 368W x 310H x 110D	<b>K1852-41</b>	
	4 Zones	No	Red	Surface 368W x 310H x 110D	<b>K1844-11</b>	
			Grey	Surface 368W x 310H x 110D	<b>K1844-41</b>	
		Yes	Red	Surface 368W x 310H x 110D	<b>K1854-11</b>	
			Grey	Surface 368W x 310H x 110D	<b>K1854-41</b>	
	8 Zones	No	Red	Surface 368W x 310H x 110D	<b>K1848-11</b>	
			Grey	Surface 368W x 310H x 110D	<b>K1848-41</b>	
		Yes	Red	Surface 368W x 310H x 110D	<b>K1858-11</b>	
			Grey	Surface 368W x 310H x 110D	<b>K1858-41</b>	

See Note  
on Page 7

### Extras

Product Description	Enclosure Details (mm)	Code	
Semi Flushing Collar	Red	368W x 310H (fits AM2 box)	<b>AM2FCRD</b>
	Grey	368W x 310H (fits AM2 box)	<b>AM2FCGY</b>
Sigma A-CP Ancillary PCB	N/A		<b>K580A</b>
Boxed Sigma A-CP Ancillary PCB	Surface 368W x 310H x 110D		<b>K02000 AM2</b>

### Spares

Product Description	Code	
<b>Sigma A-CP</b> - Replacement Panel PCB	<b>2 Zones</b>	<b>K1842-00</b>
	<b>4 Zones</b>	<b>K1844-00</b>
	<b>8 Zones</b>	<b>K1848-00</b>
<b>Sigma A-CP</b> - Replacement Dialer		<b>K1850-00</b>

### Additional Info

#### Hints & Tips

All panels are supplied with end of line resistors fitted.

● Not for placement into EU Market (typical)

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Sales: +44 (0)1322 222121

UL/FM Approved

## 36. Sigma A-XT | 3 Zone Single Area Extinguishant Control Panels - UL/ FM Approved



<b>Product Data sheet:</b>	D572 - Sigma A-XT (see website)
<b>Product Manual:</b>	Man-1145 - Installation Manual (see website) Man-1146 - Operating Instructions Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Battery Capacity:</b>	Up to 7Ah
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey BS 00 A 05 semi-matt)
<b>Certification:</b>	UL Listed and FM Approved



### Panels

Product Description	Colour	Enclosure Details (mm)	Code	
Sigma A-XT - Extinguishant Control Panel	Red	Surface 368W x 310H x 90D	K1810-13	●
	Grey	Surface 368W x 310H x 90D	K1810-43	●

### Extras

Product Description		Enclosure Details (mm)	Code	
Boxed Sigma A-XT Ancillary PCB	Red	Surface 368W x 310H x 90D	K1822-10	●
	Grey	Surface 368W x 310H x 90D	K1822-40	●
Boxed Sigma A-XT Ancillary PCB with 0.75 Amp PSU		Surface 368W x 310H x 90D	K03750 AM2*	●
Semi Flushing Collar	Red	368W x 310H (fits AM2 box)	AM2FCRD	
	Grey	368W x 310H (fits AM2 box)	AM2FCGY	

See Note  
on Page 7

### Spares

Product Description		Code	
Sigma A-XT Extinguishant control panel PCB		K1810	
Sigma A-XT Extinguishant control panel PCB c/w plate (English Language Only)		K1810-01	
Sigma A-XT Ancillary PCB		K1822-00	
Transformer	115V	B2761-115	
	230V	B2761	

### Additional Info

#### Hints & Tips

Sigma A-XT Extinguishant control panels have 3 detection zones, count down timer display & extract control facility as standard.  
Sigma A-XT supports Sigma A-Si status indicators (up to 7 per panel) via a 4 core cable (data & power).  
Sigma A-XT Extinguishant control panels are UL Listed and FM Approved.  
\* Not UL/ FM Approved

● Not for placement into EU Market (typical)

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## 37. Sigma A-Si | Extinguishant Status Indicators - UL/ FM Approved



<b>Product Data sheet:</b>	D573 - Sigma A-Si (see website)
<b>Product Manual:</b>	Man-1149 - Sigma A-Si Manual (see website) Man-1151 - Sigma A-XT Abort Switch Manual (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey BS 00 A 05 semi-matt)
<b>Certification:</b>	UL Listed and FM Approved



### Panels

Product Description			Colour	Enclosure Details (mm)		Code	
Sigma A-Si - Extinguishant Status Unit	6 Lamps	Standard	Red	Surface	186W x 132H x 50D	K1821-11	
			Grey	Surface	186W x 132H x 50D	K1821-41	
		with Mode Select function	Red	Surface	186W x 132H x 50D	K1821-13	
			Grey	Surface	186W x 132H x 50D	K1821-43	
		with Manual Release function	Red	Surface	186W x 132H x 50D	K1821-15*	
			Grey	Surface	186W x 132H x 50D	K1821-45*	
		with Mode Select & Manual Release function	Red	Surface	186W x 132H x 50D	K1821-17*	
			Grey	Surface	186W x 132H x 50D	K1821-47*	
	10 Lamps	with Mode Select & Manual Release function	Red	Surface	186W x 132H x 50D	K1821-19*	
			Grey	Surface	186W x 132H x 50D	K1821-49*	
Elite - Extinguishant Abort Switch Unit			Red	Surface	98W x 98H x 59D	K1823-10	
			Grey	Surface	98W x 98H x 59D	K1823-40	
Elite - Extinguishant Disablement Switch			Red	Surface	98W x 98H x 59D	K1832-10	
			Grey	Surface	98W x 98H x 59D	K1832-40	

See Note on Page 7

### Spares

Product Description			Code
Sigma A-Si Extinguishant status unit PCB			K569A
Semi Flushing Collar - Standard (multi purpose flushing collar)	Red		M8FCSRD
	Grey		M8FCSGY

### Additional Info

#### Hints & Tips

"Sigma A-Si" status units can only be used with Sigma A-XT control panels.

\* Not UL/ FM Approved

## 38. Power Supply | 10.25 Amp PSU - UL Approved



<b>Product Data sheet:</b>	D591 (see website)
<b>Product Manual:</b>	Man-1223 (see website)
<b>Enclosure:</b>	1.2mm mild sheet steel
<b>Finish/Colour:</b>	EPC (Red RAL 3002, optional grey BS 00 A 05 semi-matt)
<b>Certification:</b>	UL Listed



### Panels

Product Description	Colour	Enclosure Details (mm)	Code	
<b>10.25 Amp Power Supply (Boxed)</b> Standard Cabinet - Up to 18 A/H Batteries	Red	Surface 368W x 310H x 108D	<b>K8140-10</b>	●
	Grey	Surface 368W x 310H x 108D	<b>K8140-40</b>	●
<b>10.25 Amp Power Supply (Boxed)</b> Deep Cabinet - Up to 40 A/H Batteries	Red	Surface 368W x 310H x 197D	<b>K8141-10</b>	●
	Grey	Surface 368W x 310H x 197D	<b>K8141-40</b>	●

### Extras

Product Description		Enclosure Details (mm)	Code	
Semi Flushing Collar	Red	368W x 310H (fits AM2 box)	<b>AM2FCRD</b>	●
	Grey	368W x 310H (fits AM2 box)	<b>AM2FCGY</b>	●

See Note  
on Page 7

### Spares

Product Description		Code	
10.25A Charger Unit - Chassis only		<b>S408*</b>	

### Additional Info

#### Hints & Tips

\* Not UL Listed when sold separately

## 39. Custom Engineered Solutions

In addition to our extensive range of standard fire control equipment, power supplies and ancillary items, Kentec offer an unrivalled service in Custom Engineered solutions where virtually any specification of system can be realised. Use of extensive in house design, engineering and manufacturing facilities ensures that all aspects of custom engineered solutions remain under control and on time.

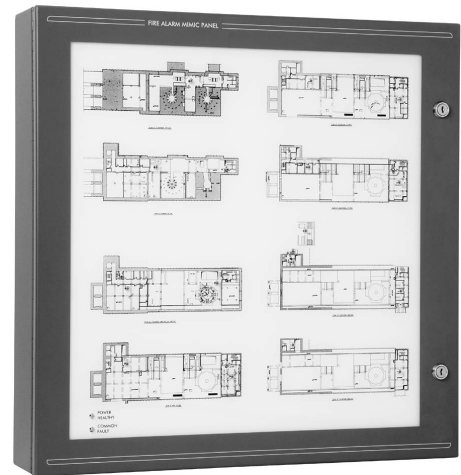
Please contact our sales department who will be able to help you with your requirements.

Our comprehensive range of services includes:

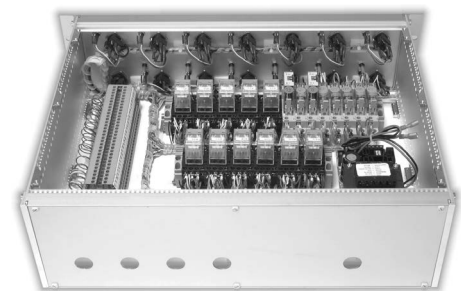
- ☐ Fast Quotations
- ☐ Expert design advice
- ☐ Mechanical engineering design
- ☐ Artwork and printing design
- ☐ Documentation
- ☐ Electrical engineering
- ☐ Electronic engineering
- ☐ Sheet metal fabrication
- ☐ Powder coat finishing
- ☐ Metal finishing
- ☐ Silk screen printing
- ☐ Wire looming
- ☐ Electrical safety testing
- ☐ Technical support

Possible applications include:

- ☐ Smoke Damper Control Panels
- ☐ Composite Relay Units (c/w Resettable Latching Relay & Firemans Switch)
- ☐ Sprinkler System Indicator Panels
- ☐ Pump Status Indicator Panels
- ☐ Firemans Control Switch Panels
- ☐ Analogue/Addressable Interface Units (with or without integral PSU)
- ☐ Mimic Repeat Indicator Panels (perspex/metal, metal only, black & white or multi-coloured)



Geographical floor plan with LED indications



Plant control unit in 19" rack enclosure



Stainless Steel Syncro AS Panel



Floor standing fire detection control panel with geographical floor plan & plant controls



## Product Training from Kentec



It is important that our customers can fully support our products and are confident in the capabilities and features provided.

To achieve this, we offer free training to our customers on all core products. The most popular course is the Syncro range of products, which is split over two days. The first day is the Syncro Foundation Course and the second day builds on this by providing hands-on training on networking, expansion cards and configuring complex systems.

We also provide product training on the Guide graphics system and our Extinguishing control panels, either at our offices or at customer locations in the UK and Internationally by prior arrangement.

For more information on training, please visit our web site [www.kentec.co.uk](http://www.kentec.co.uk) and click on the "Training" tab or email [training@kentec.co.uk](mailto:training@kentec.co.uk)

## Are you 'In the loop'?



Kentec's popular 'In the loop' e-mail bulletin has now been a regular feature for over ten years, providing articles on a variety of subjects including news about new products, enhancements to existing products and many other subjects relating to our products and services along with general industry information.

If you would like to be 'In the loop' you or a colleague can register for free on our web site by visiting [www.kentec.co.uk](http://www.kentec.co.uk)

For the more technical user we also produce the technically biased 'In the technical loop' e-mail bulletin, which can also be subscribed to by visiting [www.kentec.co.uk](http://www.kentec.co.uk)

For back issues of either publication please visit our web site.

## Marine approvals for Syncro ASM & Elite RSM



Syncro ASM & Elite RSM analogue addressable, fire detection systems are available from Kentec Electronics Limited, for a wide range of marine fire alarm system applications.

Syncro ASM fire control panels can be networked to provide scalable fire alarm systems, suitable for many classes of vessel.

For more information please visit our web site [www.kentec.co.uk](http://www.kentec.co.uk) and click on the 'Marine' tab. Alternatively please contact our sales department on 01322 222121.





## 40. Notes

[illegible]

# 41. Terms & Conditions of Sale

KENTEC ELECTRONICS LTD Terms and Conditions of Sale

## 1 INTERPRETATION

### 1.1 In these Terms:

“BUYER” means the person who accepts the Seller’s Written quotation for the sale of the Goods or whose Written order for the Goods is accepted by the Seller;

“GOODS” means the goods (including any instalment of the goods or any parts for them) which the Seller is to supply in accordance with these Terms;

“SELLER” means KENTEC ELECTRONICS LIMITED (registered in England under number 1937570) of 25 Dartford Trade Park Dartford Kent DA1 1JQ;

“CONDITIONS” means the standard terms of sale set out in this document and (unless the context otherwise requires) includes any special terms agreed in Writing between the Buyer and the Seller;

“CONTRACT” means the contract for the sale and purchase of the Goods;

“WRITING”, and any similar expression, includes facsimile transmission and electronic mail together with other forms of electronic communication.

1.2 Any reference in these Conditions to a provision of a statute shall be construed as a reference to that provision as amended, re enacted or extended at the relevant time.

1.3 The headings in these Conditions are for convenience only and shall not affect their interpretation.

## 2 BASIS OF SALE

2.1 The Seller shall sell and the Buyer shall purchase the Goods in accordance with the Seller’s Written quotation (if accepted by the Buyer), or the Buyer’s Written order (if accepted by the Seller), subject in either case to these Conditions which shall govern the Contract to the exclusion of any other terms subject to which any such quotation is accepted or purported to be accepted, or any such order is made or purported to be made, by the Buyer and subject to availability. Buyer may accept Seller’s Written quotation and Seller may accept Buyer’s Written order by email.

2.2 No variation to these Conditions shall be binding unless agreed in Writing between the authorised representatives of the Buyer and the Seller.

2.3 The Seller’s employees or agents are not authorised to make any representations concerning the Goods unless confirmed by the Seller in Writing. In entering into the Contract the Buyer acknowledges that it does not rely on, and waives any claim for breach of, any such representations which are not so confirmed, but nothing in these Conditions affects the liability of either party for fraudulent misrepresentation.

2.4 Any advice or recommendation given by the Seller or its employees or agents to the Buyer or its employees or agents as to the storage, application or use of the Goods which is not confirmed in Writing by the Seller is followed or acted upon entirely at the Buyer’s own risk, and accordingly the Seller shall not be liable for any such advice or recommendation which is not so confirmed.

2.5 Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by the Seller shall be subject to correction without any liability on the part of the Seller.

## 3 ORDERS AND SPECIFICATIONS

3.1 No order submitted by the Buyer shall be deemed to be accepted by the Seller unless and until confirmed in Writing by the Seller’s authorised representative.

3.2 The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any order (including any applicable specification) submitted by the Buyer, and for giving the Seller any necessary information relating to the Goods within a sufficient time to enable the Seller to perform the Contract in accordance with its terms.

3.3 The quantity, quality and description of the Goods and any specification for them shall be as set out in the Seller’s quotation (if accepted by the Buyer) or the Buyer’s order (if accepted by the Seller).

3.4 If the Goods are to be manufactured or any process is to be applied to the Goods by the Seller in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Seller against all loss, damages, costs and expenses awarded against or incurred by the Seller in connection with, or paid or agreed to be paid by the Seller in settlement of, any claim for infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which results from the Seller’s use of the Buyer’s specification.

3.5 The Seller reserves the right to make any changes in the specification of the Goods which are required to conform with any applicable statutory requirements or, where the Goods are to be supplied to the Seller’s specification, which do not materially affect their quality or performance.

3.6 No order which has been accepted by the Seller may be cancelled by the Buyer except with the agreement in Writing of the Seller and on terms that the Buyer shall indemnify the Seller in full against all loss (including loss of profit), costs (including the cost of all labour and materials used), damages, charges and expenses incurred by the Seller as a result of cancellation.

## 4 PRICE OF THE GOODS

4.1 The price of the Goods shall be the Seller’s quoted price or, where no price has been quoted (or a quoted price is no longer valid), the price listed in the Seller’s published price list current at the date of acceptance of the order. Where the Goods are supplied for export from the United Kingdom, the Seller’s published export price list shall apply. All prices quoted are valid for 30 days only or until earlier acceptance by the Buyer, after which time they may be altered by the Seller without giving notice to the Buyer.

4.2 The Seller reserves the right, by giving Written notice to the Buyer at any time before delivery, to increase the price of the Goods to reflect any increase in the cost to the Seller which is due to any factor beyond the control of the Seller (such as, without limitation, any foreign exchange fluctuation, currency regulation, alteration of duties, significant increase in the costs of labour, materials or other costs of manufacture), any change in delivery dates, quantities or specifications for the Goods which is requested by the Buyer, or any delay caused by any instructions of the Buyer or failure of the Buyer to give the Seller adequate information or instructions.

4.3 Except as otherwise stated in the Seller’s Written quotation or in any price list of the Seller, and unless otherwise agreed in Writing between the Buyer and the Seller, all prices are given by the Seller on an ex works basis, and where the Seller agrees to deliver the Goods otherwise than at the Seller’s premises, the Buyer shall be liable to pay the Seller’s charges for transport, packaging and insurance.

4.4 The price is exclusive of any applicable value added tax, which the Buyer shall be additionally liable to pay to the Seller.

4.5 The cost of pallets and returnable containers will be charged to the Buyer in addition to the price of the Goods, but full credit will be given to the Buyer provided they are returned undamaged to the Seller before the due payment date.

## 5 TERMS OF PAYMENT

5.1 Subject to any special terms agreed in Writing between the Buyer and the Seller and subject to the Buyer being eligible for credit (as the Seller shall determine in its sole discretion in accordance with its internal procedures), the Seller may invoice the Buyer for the price of the Goods on or at any time after delivery of the Goods, unless the Goods are to be collected by the Buyer or the Buyer wrongfully fails to take delivery of the Goods, in which event the Seller shall be entitled to invoice the Buyer for the price at any time after the Seller has notified the Buyer that the Goods are ready for collection or (as the case may be) the Seller has tendered delivery of the Goods.

5.2 The Buyer shall pay the price of the Goods within 30 days of the date of the Seller’s invoice, notwithstanding that delivery may not have taken place and/or that the property in the Goods has not passed to the Buyer. The time of payment of the price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.

5.3 If the Buyer fails to make any payment on the due date then, without prejudice to any other right or remedy available to the Seller, the Seller shall be entitled to:

5.3.1 Cancel the contract or suspend any further deliveries to the Buyer;

5.3.2 Appropriate any payment made by the Buyer to such of the Goods (or the Goods supplied under any other contract between the Buyer and the Seller) as the Seller may think fit (notwithstanding any purported appropriation by the Buyer);

5.3.3 Charge the Buyer interest (both before and after any judgment) on the amount unpaid, at the rate of four per cent per annum above HSBC PLC base rate from time to time, until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest).

5.3.4 Exercise its rights under clause 7.4.

5.4 Where credit terms have been agreed between the Buyer and the Seller, the Seller may amend or withdraw those credit terms if the Buyer’s credit profile changes at any time, as the Seller may in its sole discretion determine in accordance with its internal procedures.

## 6 DELIVERY

6.1 Delivery of the Goods shall be made by the Buyer collecting the Goods at the Seller’s premises at any time after the Seller has notified the Buyer that the Goods are ready for collection or, if some other place for delivery is agreed by the Seller, by the Seller delivering the Goods to that place.

6.2 Any dates quoted for delivery of the Goods are approximate only and the Seller shall not be liable for any delay in delivery of the Goods however caused. Time for delivery shall not be of the essence of the Contract unless previously agreed by the Seller in Writing. The Goods may be delivered by the Seller in advance of the quoted delivery date on giving reasonable notice to the Buyer.

6.3 Where the Goods are to be delivered in instalments, each delivery shall constitute a separate contract and failure by the Seller to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated.

6.4 If the Seller fails to deliver the Goods (or any instalment) for any reason other than any cause beyond the Seller’s reasonable control or the Buyer’s fault, and the Seller is accordingly liable to the Buyer, the Seller’s liability shall be limited to the excess (if any) of the cost to the Buyer (in the cheapest available market) of similar goods to replace those not delivered over the price of the Goods.

6.5 If the Buyer fails to take delivery of the Goods or fails to give the Seller adequate delivery instructions at the time stated for delivery (otherwise than by reason of any cause beyond the Buyer’s reasonable control or by reason of the Seller’s fault) then, without limiting any other right or remedy available to the Seller, the Seller may:

6.5.1 Store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage; or

6.5.2 Sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) account to the Buyer for the excess over the price under the Contract or charge the Buyer for any shortfall below the price under the Contract.

## 7 RISK AND PROPERTY

7.1 Risk of damage to or loss of the Goods shall pass to the Buyer:

7.1.1 In the case of Goods to be delivered at the Seller’s premises, at the time when the Seller notifies the Buyer that the Goods are available for collection; or

7.1.2 In the case of Goods to be delivered otherwise than at the Seller’s premises, at the time of delivery or, if the Buyer wrongfully fails to take delivery of the Goods, the time when the Seller has tendered delivery of the Goods.

7.2 Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these Conditions, the property in the Goods shall not pass to the Buyer until the Seller has received in cash or cleared funds payment in full of the price of the Goods and all other goods agreed to be sold by the Seller to the Buyer for which payment is then due.

7.3 Until such time as the property in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Seller’s fiduciary agent and bailee, and shall keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured and identified as the Seller’s property but the Buyer may resell or use the Goods in the ordinary course of its business provided that the Buyer shall account to the Seller for the proceeds of sale which said proceeds shall be kept by the Buyer separate from any moneys or property of the Buyer and third parties.

7.4 Until such time as the property in the Goods passes to the Buyer pursuant to clause 7.2 (and provided the Goods are still in existence and have not been resold), the Seller may at any time require the Buyer to deliver up the Goods to the Seller and, if the Buyer fails to do so forthwith, enter on any premises of the Buyer or any third party where the Goods are stored and repossess the Goods and the Buyer grants the Seller an irrevocable licence for the Seller, its agents and employees to so enter any premises where the Buyer stores its goods, to ascertain whether any Goods are stored there and to inspect, count and recover them.

7.5 The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Seller, but if the Buyer does so all moneys owing by the Buyer to the Seller shall (without limiting any other right or remedy of the Seller) forthwith become due and payable.

## 8 WARRANTIES AND LIABILITY

8.1 Subject to the following provisions the Seller warrants that the Goods will correspond with their specification at the time of delivery and will be free from defects in material and workmanship for a period of thirty six months from delivery.

8.2 The above warranty is given by the Seller subject to the following conditions:

8.2.1 The Seller shall be under no liability in respect of any defect in the Goods arising from any drawing, design or specification supplied by the Buyer;

# 41. Terms & Conditions of Sale (Continued)

8.2.2 The Seller shall be under no liability in respect of any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow the Seller's instructions (whether oral or in writing), misuse or alteration or repair of the Goods without the Seller's approval;

8.2.3 The Seller shall be under no liability under the above warranty (or any other warranty, condition or guarantee) if the total price for the Goods has not been paid by the due date for payment;

8.2.4 The above warranty does not extend to parts, materials or equipment not manufactured by the Seller, in respect of which the Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given by the manufacturer to the Seller.

8.2.5 The Buyer complying in all material respects with these Conditions.

8.3 Subject as expressly provided in these conditions, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

8.4 Where the Goods are sold under a consumer transaction (as defined by the Sale of Goods Act 1979) the statutory rights of the Buyer are not affected by these Conditions.

8.5 A claim by the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with specification shall (whether or not delivery is refused by the Buyer) be notified to the Seller within seven days from the date of delivery or (where the defect or failure was not apparent on reasonable inspection) within a reasonable time after discovery of the defect or failure. If delivery is not refused, and the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability for such defect or failure, and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract.

8.6 Any claim under the warranty at clause 8.1 shall be notified to the Seller within 7 days of discovery of the claim and in so notifying the Buyer shall return the Goods at its cost and shall provide a detailed explanation of the reason for the claim, together with proof of purchase and such other information as the Seller may reasonably require. Where a valid claim in respect of any of the Goods which is based on a defect in the quality or condition of the Goods or their failure to meet specification is notified to the Seller in accordance with these Conditions, the Seller may replace the Goods (or the part in question) free of charge or, at the Seller's sole discretion, refund to the Buyer the price of the Goods (or a proportionate part of the price), in which case the Seller shall have no further liability to the Buyer.

8.7 Nothing in these Conditions shall limit or exclude the Seller's liability for:

8.7.1 death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors (as applicable);

8.7.2 fraud or fraudulent misrepresentation;

8.7.3 breach of the terms implied by section 12 of the Sale of Goods Act 1979;

8.7.4 defective products under the Consumer Protection Act 1987; or

8.7.5 any matter in respect of which it would be unlawful for the Seller to exclude or restrict liability.

8.8 Subject to clause 8.7:

8.8.1 the Seller shall under no circumstances whatever be liable to the Buyer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, economic loss or damage, loss of data, loss of actual or anticipated savings, or any special, indirect or consequential loss arising under or in connection with the Contract; and

8.8.2 the Seller's total liability to the Buyer in respect of all other losses arising under or in connection with the Contract, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed the price of the Goods.

8.9 The Seller shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing, or any failure to perform, any of the Seller's obligations in relation to the Goods, if the delay or failure was due to any cause beyond the Seller's reasonable control. Without limiting the foregoing, the following shall be regarded as causes beyond the Seller's reasonable control:

8.9.1 Act of God, explosion, flood, tempest, fire or accident;

8.9.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;

8.9.3 acts, restrictions, regulations, bye laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;

8.9.4 import or export regulations or embargoes;

8.9.5 strikes, lock outs or other industrial actions or trade disputes (whether involving employees of the Seller or of a third party);

8.9.6 difficulties in obtaining raw materials, labour, fuel, parts or machinery;

8.9.7 power failure or breakdown in machinery.

## 9 INDEMNITY

9.1 Subject to clause 3.4, the Seller shall indemnify the Buyer against all loss, damages, costs and expenses that are awarded by a court of competent jurisdiction without right of appeal suffered or incurred by the Buyer in connection with any claim that the Goods infringe the patent, copyright or design rights of a third party, provided that:

9.1.1 The Buyer promptly notifies the Seller of any such claim and in any event within 30 days of receiving notice of the same;

9.1.2 The Seller is given full control of any proceedings or negotiations in connection with the claim;

9.1.3 The Buyer shall give the Seller all reasonable assistance for the purposes of any such proceedings or negotiations;

9.1.4 The Buyer shall not admit liability nor enter into a settlement or compromise of the claim without the Seller's express prior written consent;

9.1.5 The Buyer shall do nothing which would or might vitiate any policy of insurance or insurance cover which the Buyer may have in relation to such infringement, and this indemnity shall not apply to the extent that the Buyer recovers any sums under any such policy or cover (which the Buyer shall use its best endeavours to do);

9.1.6 The Seller shall be entitled to the benefit of, and the Buyer shall accordingly account to the Seller for, all damages and costs (if any) awarded in favour of the Buyer which are payable by, or agreed with the consent of the Buyer (which consent shall not be unreasonably withheld) to be paid by, any other party in respect of any such claim;

9.1.7 Without limiting any duty of the Buyer at common law, the Seller may require the Buyer to take such steps as the Seller may reasonably require to mitigate or reduce any such loss, damages, costs or expenses for which the Seller is liable to indemnify the Buyer under this clause; and

9.1.8 The Seller shall have the right to modify the Goods so that they become non-infringing or to acquire a licence for the Buyer to enable it to use the Goods in accordance with the Contract.

9.2 The foregoing states the Seller's entire liability and the Buyer's sole remedy with respect to the infringement of any intellectual property rights.

## 10 INSOLVENCY OF THE BUYER

10.1 This clause 10 applies if:

10.1.1 The Buyer makes a composition or voluntary arrangement with its creditors or (being an individual or firm) becomes bankrupt or (being a company) enters administration or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction), or a moratorium comes into force in respect of the Buyer (within the meaning of the Insolvency Act 1986); or

10.1.2 An encumbrancer takes possession, or a receiver is appointed, of any of the property or assets of the Buyer; or

10.1.3 The Buyer ceases, or threatens to cease, to carry on business; or

10.1.4 The Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly; or

10.1.5 Any event analogous to the events listed in clause 10.1.1 to 10.1.3 in relation to the Buyer occurs in any jurisdiction in which the Buyer is incorporated, resident or carries on business.

10.2 If this clause applies then, without limiting any other right or remedy available to the Seller, the Seller may cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer, and if the Goods have been delivered but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

## 11 EXPORT TERMS

11.1 In this clause 11 "Incoterms" means the International Rules for the Interpretation of Trade Terms of the International Chamber of Commerce as in force at the date when the Contract is made. Unless the context otherwise requires, any term or expression which is defined in or given a particular meaning by the provisions of Incoterms shall have the same meaning in these Terms, but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.

11.2 Where the Goods are supplied for export from the United Kingdom, the provisions of this clause 11 shall (subject to any special terms agreed in Writing between the Buyer and the Seller) apply notwithstanding any other provision of these Conditions.

11.3 The Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and for the payment of any duties on them.

11.4 Unless otherwise agreed in Writing between the Buyer and the Seller, the Goods shall be delivered fob the air or sea port of shipment and the Seller shall be under no obligation to give notice under section 32(3) of the Sale of Goods Act 1979.

11.5 The Buyer shall be responsible for arranging for testing and inspection of the Goods at the Seller's premises before shipment. The Seller shall have no liability for any claim in respect of any defect in the Goods which would be apparent on inspection and which is made after shipment, or in respect of any damage during transit.

11.6 Unless otherwise required by the Seller, payment of all amounts due to the Seller shall be made by irrevocable letter of credit, in a form acceptable to the Seller, to be opened by the Buyer in favour of the Seller and confirmed by a bank in the United Kingdom acceptable to the Seller within 14 days after the Contract is concluded.

11.7 The Buyer shall not offer the Goods for resale in any other country notified by the Seller to the Buyer at or before the time the Buyer's order is placed, or sell the Goods to any person if the Buyer knows or has reason to believe that that person intends to resell the Goods in any such country.

## 12 ANTI-BRIBERY

12.1 Each Party shall:

12.2 Comply with all applicable laws, statutes, regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

12.3 Have and shall maintain in place throughout the term of the Contract its own policies and procedures, including but not limited to adequate procedures under the Bribery Act 2010, and will enforce them where appropriate;

12.4 Promptly report to the other Party any request or demand for any undue financial or other advantage of any kind received by it in connection with the performance of the Contract.

## 13 GENERAL

13.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in Writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving the notice.

13.2 No waiver by the Seller of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

13.3 The Buyer shall not assign the whole or any part of its rights or obligations under these Conditions.

13.4 Nothing in these Conditions shall give nor is intended to give rights to any third party under the Contract (Rights of Third Parties) Act 1999 or otherwise.

13.5 If any provision of the Contract is held by a court or other competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

13.6 Any dispute arising under these Conditions or the sale of the Goods shall be referred to arbitration by a single arbitrator appointed by agreement or (in default) nominated at the application of either party by the President for the time being of The Law Society, in accordance with the rules of The Arbitration Acts 1996.

13.7 The Contract shall be governed by the laws of England, and the Buyer agrees to submit to the non exclusive jurisdiction of the English courts.



# Kentec

Electronics Ltd



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